LOCTITE®

The Equipment Sourcebook

VOLUME 11

The Equipment Sourcebook

Since 1971, Henkel Corporation has designed, built and integrated high-quality equipment solutions. From simple handheld devices to fully automated systems, Henkel offers a complete line of standard off-the-shelf LOCTITE® and TEROSON® brand dispensing and light curing equipment, which can be integrated easily into your manufacturing process.

Introduction

From water-thin liquids to high-viscosity pastes, LOCTITE brand equipment is capable of dispensing and curing a wide variety of adhesives, sealants and other industrial fluids:

Adhesives and Sealants

Acrylics
Anaerobics
Cyanoacrylates
Epoxies
Hot Melts
Silicones
Urethanes
UV/Light Curing Adhesives

Industrial Fluids

Accelerators/Activators
Greases
Inks
Lubricants/Oils
Paints
Primers
Solvents
Solder Pastes

In addition to our standard line of equipment, Henkel offers a number of resources to support your dispensing needs:

- ***Custom Equipment Systems*** – We can modify any LOCTITE brand standard system or customize a system to meet your specific assembly needs.
- ***Equipment Rental Program*** – Evaluate the performance of our equipment before making a capital investment.
- ***Equipment Website*** – Locate details on LOCTITE brand standard and custom equipment, parts and accessories, and equipment services. To learn more about our equipment, or to find the name and phone number of your nearest authorized distributor, visit ***equipment.loctite.com***.
- ***Adhesive and Sealant Specialists*** – Henkel Adhesive and Sealant Specialists are available across the continent to personally assist you with new assembly challenges or to help you re-engineer an existing application for improved performance and cost savings using LOCTITE brand products. Contact us at ***1.800.LOCTITE*** (562.8483) or visit ***henkel-adhesives.us***.

The Adhesive Sourcebook

In addition to our dispensing and curing equipment, Henkel offers a complete line of adhesives, sealants, cleaners, lubricants, potting compounds and coatings. That's more than 1,400 products in total!

To view our online catalog, visit henkel-adhesives.us, or to request a copy, send an email to literature@loctite.com, and refer to the Adhesive Sourcebook, LT-3355.

Engineering Services

Henkel now offers complete engineering services for projects demanding expertise and support beyond the limits of our standard technical services. As a result, our engineers and scientists can quote the following value-added services:

- On-site engineering assistance and consultation
- Joint product development programs
- Contract lab services and testing
- Prototype testing and fixture preparation
- Custom formulations

For more information on these and other Henkel Engineering Services, contact your Henkel Adhesive and Sealant Specialist at ***1.800.LOCTITE*** (562.8483).

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Equipment Service Solutions

As a full-service supplier of equipment, Henkel offers a wide variety of Equipment Services to its customers.

Factory Repairs

If you have equipment in need of repair, Henkel can restore it to original operating specifications. Customers often schedule preventive repairs to coincide with annual shutdowns. Henkel can work with you to get your equipment up and running in the fastest possible time frame. Rental equipment may be available on a short-term basis to minimize downtime.

Benefits of Factory Repair Service Include:

- Trained technicians evaluate equipment based on original design specifications to identify critical and preventive repair recommendations.
- Equipment is repaired using original factory parts.
- All equipment is fully tested to original quality specifications.
- All repairs carry a 30-day labor and 90-day parts warranty.

Calibrations

Henkel provides calibration services for all of its light meters. All meters are calibrated to original calibration standards. Data is collected before and after calibration, and a calibration certificate is issued that states test results. In addition, you can sign up with Henkel for calibration reminders. All units are also inspected during calibration for any potential repairs.

Field Service

Henkel technicians are available to travel to your location for repair services, preventative maintenance, training or assistance in setting up a new system. Whatever you need, Henkel can provide the service.

Spare Parts

Spare parts and accessories are available through the equipment services group of Henkel. Most common spare parts can be identified on our website at ***equipment.loctite.com***. If you cannot find the part you are looking for, our equipment services group can help you identify that part and provide you with a quote.

Rebuild Exchange Program

The Henkel Rebuild Exchange Program offers customers a cost-effective way of streamlining the repair of dispensing valves. The rebuild program allows customers to send in their old valve and receive a reconditioned valve in return. Customers who participate in this program typically keep a spare valve in inventory so if a valve goes down, it can be replaced immediately. The valve in need of repair is then sent to Henkel and a reconditioned valve is shipped back to the customer for future use.

Advantages of the Rebuild Exchange Program are:

- Rebuilt equipment is less than half the cost of a new unit.
- Rebuilt equipment is shipped in one to two business days.
- Highly trained technicians use original factory parts.
- All equipment is specially treated with a Henkel proprietary technology to prolong its useful life with reactive adhesives.
- All rebuilds carry a 30-day labor and 90-day parts warranty.

Discount Equipment

Henkel is able to offer a wide range of used or discontinued equipment at discounted prices. This equipment typically has been used in our rental program or has been used for customer demonstrations or trade shows. This equipment may have cosmetic blemishes, but performs to original factory specification. All equipment carries the same warranty as new equipment, and is fully tested and reconditioned prior to sale.

Equipment Rental

Many of the equipment products that Henkel offers are available for short-term rental. Henkel's Equipment Rental Program allows customers the flexibility to confirm the performance of our adhesives and equipment risk-free before investing in a purchase. If, during the first 30 days, you decide that you would like to purchase the rental equipment, the entire rental charge is credited toward your purchase.

Benefits of This Program Include:

- The performance of a new manufacturing process can be confirmed before investing fully in the purchase of equipment.
- Short production runs can be accommodated without having to buy equipment.
- Equipment can be rented during the repair of production equipment, minimizing any downtime.

Lease-To-Own Program

Henkel offers a Lease-to-Own program for new equipment. According to the United States Equipment Lessors Association, 80% of all companies use leasing to acquire some or all of the machinery and equipment that they use to run their businesses. Henkel's Lease-to-Own program provides an effective way for your business to acquire almost any Henkel equipment. Leases can be customized to each company's needs. Our program can also include other services and spare parts as part of the equipment lease. Let us customize a lease program to meet your needs.

Preventative Maintenance Contracts

There are many misconceptions about preventative maintenance (PM). One such misconception is that PM is unduly costly. This may be true for some components, but not all. Without PM, costs for lost production time from unscheduled equipment breakdown will be incurred. Also, PM will result in savings due to an increase in effective system service life.

Long-term Benefits of PM Include:

- Improved system reliability.
- Decreased cost of replacement.
- Decreased downtime.
- Better spare part inventory management.

Henkel can create a PM contract that fits your specific equipment and can work with your maintenance staff to ensure maximum uptime of your equipment.

Request Equipment Services

To learn more about the services Henkel offers, you can visit our website at ***equipment.loctite.com*** and click on the ***Equipment Services*** tab.

By Internet

To request a quote or get more information, email your request to equipment.services@henkel.com, or visit our Equipment Services page (***equipment.loctite.com/page/equipment-services***), click on the ***Contact Us*** link, and you will hear back promptly from a customer service representative.

By Telephone

If you wish to speak to us regarding an equipment service, you can call ***860.571.5174*** to speak to an equipment services representative.

If you have a question regarding equipment setup or operation, our technical information staff is available to help. To contact a technical information staff member, call ***1.800.LOCTITE (562.8483)*** and choose the technical service option.

LOCTITE® Equipment Website

To better support our wide array of equipment services, our Equipment website provides easy access to all service options and inquiries for all LOCTITE Equipment you may be interested in. Technical literature, Equipment Showroom locator, operational videos and much more are all at your fingertips, for quick and easy access. You can also choose to purchase directly online using a major credit card. Select from our wide array of adhesive dispensing and light curing equipment. Shipping time for most items is just one to two business days.

Dispense Systems – Adhesive Bottles

LOCTITE® bottle dispense systems are designed to offer "the total package" for dispensing adhesives, packaged in a LOCTITE or any other brand bottle. From out-of-the-box ready to more versatile integrating dispensing components, these systems offer effective solutions to your demanding manufacturing needs.

PRODUCT		Item Number	Pressure Regulation	Used to Dispense	Package Types & Sizes	Viscosity Range	Low Level Sensing
Volumetric Bottle Dispensers – *Dispense adhesive directly from product bottle with no reservoirs required.*							
NEW	**LOCTITE EQ PU20 Digital Peristaltic Dispenser**	2265279	N/A	Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	Any bottle	0 to 5,000 cP	No
Pressure-Time Bottle Dispense Systems – *Versatile systems for dispensing a wide range of products in a variety of adhesive bottle sizes.*							
	LOCTITE Bond-A-Matic® 3000 Dispenser	982719	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low	No
	LOCTITE Bond-A-Matic® 3000 Dispenser	982722	0 to 100 psi			Medium to High	No
	LOCTITE Integrated Semiautomatic Dispenser	1390322	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes
		1390321	0 to 100 psi			Medium to High	Yes

Dispense tips are required to complete your system. Check out page 64-65 to select from our wide assortment of dispense tips.

VOLUMETRIC BENCHTOP BOTTLE DISPENSER

LOCTITE® EQ PU20 DIGITAL PERISTALTIC DISPENSER

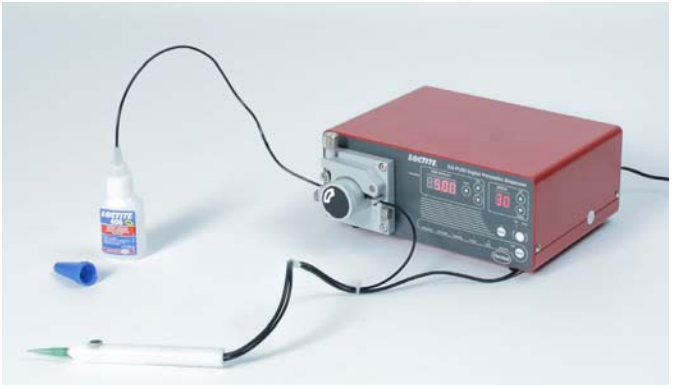
NEW

Item Number: 2265279

The LOCTITE® EQ PU20 Digital Peristaltic Dispenser is a reliable and cost-effective volumetric dispensing option for single component, low viscosity fluids. The system allows for air-free dispensing directly from the product bottle to avoid premature clogging and curing of moisture-sensitive adhesives such as cyanoacrylates. Now offered with digital speed control for improved accuracy and repeatability, the LOCTITE EQ PU20 combines both precision and flexibility for handheld, benchtop, or semi-automated processes.

Features:

- Air-free dispensing reduces premature curing and clogging of product.
- Instant reverse for vacuum suck-back; shuts off the flow of liquid and prevents dripping.
- Adjustable post-delay time for vacuum setting.
- Simple and convenient load mechanism for tubing replacement.
- Digital motor speed adjustment and display.
- Digital timer display.
- "Teach In" and program memory saving function.
- Multiple running modes.



TECHNICAL SPECIFICATIONS	
Power Supply	110/220 VAC; 50/60 Hz
Dispense Time Range	0.01 to 99.9 seconds
Rotor Speed	Up to 120 rpm
Maximum Flow Rate	Up to 6 ml per minute
Minimum Drop Size	0.001 ml
Dimensions	7.2" W x 3.2" H x 6.7" D
Weight	6.6 lbs.
Used to Dispense	Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers
Viscosity	0 to 5,000 cP
Dispense Range	0.001 ml up to 6 ml/minute
Package Types & Sizes	Any bottle
Suck-Back	Programmable by reversing the direction of rotor
Parts Included	(1) Silicone Grease (1) Applicator Assembly (1) Manual (4) Feed Tubing (4) Applicator Nozzles

Additional Accessories Sold Separately

98501 – LOCTITE Applicator Holder

1174337 – LOCTITE Micro Dispense Scale

Dispense tips are required to complete your system. Check out page 64-65 to select from our wide assortment of dispense tips.

PRESSURE-TIME BOTTLE DISPENSE SYSTEMS

LOCTITE® BOND-A-MATIC® 3000 DISPENSER

Item Numbers: 982719 and 982722

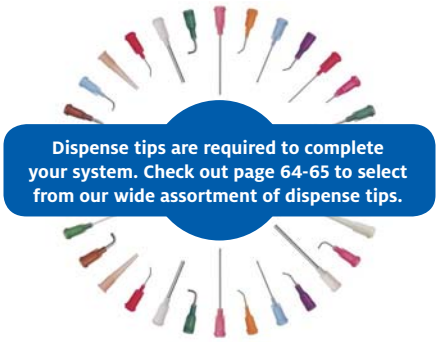
Reliable, low-cost pneumatic dispensers for single-component adhesives.

Features:

- Effective "pinch tube" dispenser included.
- PTFE-lined, black feed line provides a light and moisture barrier to ensure no-clog dispensing of light-sensitive acrylics and moisture-sensitive instant adhesives.
- Dispensing needle assortment allows you to select the needle to deliver the bead or dot size needed for your application.
- Adjustable pressure regulator.

Ready to Go – Right Out of the Box!

TECHNICAL SPECIFICATIONS			
Air Input		Clean, dry air not to exceed 125 psi and filtered with a maximum of 50 microns	
Fluid Pressure Output		982719: 0 to 15 psi	982722: 0 to 100 psi
Product Viscosity		982719: 0 to 3,000 cP	982722: >3,000 cP
Maximum Distance from System to Dispense Point		48"	
Dimensions	*Overall*	13.125" H x 9.875" W x 14.625" Diameter	
	Internal Reservoir	10" H x 5" Diameter	
Weight		18 lbs.	
Used to Dispense		Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	
Package Types & Sizes		250 ml bottle / 1 lb. bottle / 1 liter bottle 2 kg bottle / 200 g squeeze tube	
Parts Included		(1) LOCTITE Bond-A-Matic® Reservoir with 1/4" tank fitting (1) LOCTITE Vari-Drop™ Applicator Kit (1) ¼" Feed Line and Spring Strain Relief (1) Anti-Bubble Tip & Sleeve (1) Needle Assortment Kit (1) Tube of Silicone Grease (1) Manual	
Additional Information		For Spare Parts & Accessories, see pages 69-70.	



Dispense tips are required to complete your system. Check out page 64-65 to select from our wide assortment of dispense tips.

TOP CHOICE

LOCTITE® DUAL CHANNEL INTEGRATED DISPENSER

Item Numbers: 1390321 and 1390322

Exceptional dispensing solution provides cost-effective operation in high volume applications.

Features:

- Integrated fluid reservoir and dispense valve timing controls.
- Precision fluid pressure regulator and gauge.
- Two independent adhesive output ports and digital timing channels (adjustable from 0.01 to 99.99 seconds).
- Can be used to control two dispense valves or one dispense valve and one advancing slide.
- Selectable delay setting allows positioning of an advancing slide prior to the opening of dispense valve.
- Low level sensor alarm provides warning for adhesive bottle replacement.
- Interface connections for customer's PLC to indicate reservoir low level condition and cycle complete signal.
- Selectable supervisory lockouts for pressure and time.

TECHNICAL SPECIFICATIONS		
Power Supply	90/260 VAC; 47/63 Hz	
Air Input	Minimum 30 psi	
Fluid Pressure Output	1390321: 0 to 100 psi	1390322: 0 to 15 psi
Low Level Sensing	Yes	Yes
Product Viscosity	>3,000 cP	0 to 3,000 cP
Dimensions	13.3" H x 7.3" W x 14.3" D	
Reservoir Dimensions	4.75" Diameter x 9.75" H	
Weight	15.4 lbs.	
Used to Dispense	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	
Package Types & Sizes	250 ml bottle / 1 lb. bottle / 1 liter bottle 2 kg bottle / 200 g squeeze tube	
Parts Included	(1) Universal Power Supply (1) Fitting and Tube Kit (1) Dual Channel Integrated Semiautomatic Dispenser	(1) Bottle Nesting Basket (1) Manual (1) Foot Switch (1) Anti-Bubble/Spring Guard Kit
Additional Information	For Spare Parts & Accessories, see pages 69-70.	

Additional Required Accessories Sold Separately

97132 – LOCTITE Vari-Drop™ Applicator

98009 – LOCTITE Light Cure Dispense Valve

98013 – LOCTITE Cyanoacrylate Dispense Valve

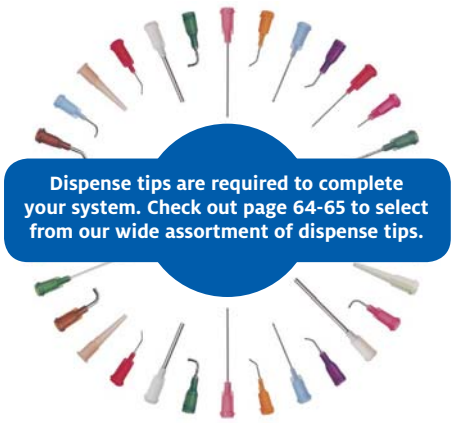
97113 / 97114 – LOCTITE Stationary Applicator Valves

Dispense Systems – Pneumatic Syringe Dispensing

LOCTITE® pneumatic syringe dispensing systems can accommodate adhesives packaged in either 3, 5, 10, 30 or 55 ml syringe barrels — and conveniently dispense with precision and ease. Our top-of-the-line Posi-Link™ system provides our highest level of dispensing precision, making use of volumetric technology. Other systems use pressure-time dispensing with varying levels of dispensing performance.

PRODUCT		Item Number	Dispense Patterns	Used to Dispense	Package Types & Sizes	Viscosity Range	Vacuum Suck-Back
SYRINGE DISPENSING SYSTEMS – *Choose the LOCTITE Posi-Link™ Volumetric Dispense System for a noteworthy level of dispense precision.*							
	LOCTITE Posi-Link™ Volumetric Dispense System	See page 9	Dots, Drops, Beads	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Epoxies	Prepackaged 5 ml syringe 10 ml syringe 25 ml syringe	Low to Paste	Yes
	LOCTITE Precision Syringe Dispensing System	97006*	Dots, Drops, Beads	Gel Adhesives, Instant Adhesives, Light Cure Acrylics	3 ml syringe 5 ml syringe 10 ml syringe 30 ml syringe 55 ml syringe	Low to Paste	Yes
	LOCTITE EQ SD10 Digital Syringe Dispenser	1514629	Dots, Drops, Beads	Gel Adhesives, Instant Adhesives, Light Cure Acrylics		Low to Paste	Yes
	LOCTITE Digital Syringe Dispensing System	883976	Dots, Drops, Beads	Gel Adhesives, Instant Adhesives, Light Cure Acrylics		Low to Paste	Yes
	LOCTITE Foot Pedal Dispenser	98050*	Dots, Drops, Beads	Gel Adhesives, Instant Adhesives, Light Cure Acrylics		Low to Paste	Yes
	LOCTITE EQ HM20 PUR Dispense System	2033850 2033861 2016756 See Page 13	Dots or Beads	PUR Hot Melt Adhesives	30 ml syringe barrels	Low to High	Yes

* Syringe Line Adapter sold separately. See page 69.



Dispense tips are required to complete your system. Check out page 64-65 to select from our wide assortment of dispense tips.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® Posi-Link™ Volumetric Dispense System for Prepackaged Syringes

The LOCTITE® Posi-Link™ Volumetric Dispense System is a programmable, volumetric dispensing system that is designed to provide the highest level of dispensing precision directly from a disposable syringe barrel. No need to worry about product temperature or product viscosity changes. This innovative, patented design uses a "positive link" between a step motor and a mechanical plunger via a noncompressible hydraulic fluid to ensure precise adhesive dispensing down to 0.001 ml drop sizes. See Theory of Operation, page 10.

Complete LOCTITE® Posi-Link™ Syringe System

Controller + *Actuator* + *Nest*

(Each Item Sold Separately)

Compact controller and floor-mounted actuator leave benchtop wide open for manual applications. See pages 24-25 for more information on LOCTITE Posi-Link™ actuators for dual cartridge applications.

LOCTITE® Posi-Link™ Controller

Item Number: 98377

Provides all operator interface and control signals to actuator.

Features:

- **Dose selection** by volume.
- **Easy programming** controller, with storage capacity for 25 user-defined programs; reduces adhesive setup waste.
- **Small footprint** to conserve benchtop space.
- **Automatic syringe engagement** to ensure easy and error-free syringe changeover.
- **Adhesive level monitoring** with low level visual and digital outputs.
- **Fault detection** with visual and digital outputs for clogged nozzles, loss of pressure, and system faults.
- **In-cycle** visual and digital outputs.
- **Foot switch, finger switch or PLC** remote start activation.

LOCTITE® Posi-Link™ Actuator

Item Number: 98379

Provides adhesive dispensing by effecting incremental movements of syringe piston and displacing programmable quantities of adhesive within syringe barrel.

Features:

- **Flexible orientation** in any position.
- **Easily fits** below an industrial workbench or wall mounts with brackets supplied to conserve benchtop space.
- **Lightweight** remote dispense head has a "positive link" to actuator via a 7-ft. tether, allowing ergonomic handheld dispensing or mounting directly on robotic arms.
- **Easily attaches** to syringe nest (sold separately) to accommodate alternate syringe barrel sizes.
- **Adhesive pressure** is mechanically driven versus traditional air pressure driven, eliminating risk of air infiltration into adhesive.
- **Suck-back** feature prevents drip at end of dispense, and is mechanically driven versus traditional air vacuum-driven, eliminating risk of adhesive being sucked into the system.

PRODUCT	LOCTITE® Posi-Link™ 10-50 Actuator
Item Number	98379‡
Application Type	Recommended for Mounted or Robotic
Syringe Barrel Size	10, 25 ml

‡ See pages 24-25 for use with dual component epoxy cartridges.

LOCTITE® Posi-Link™ Syringe Nests

Item Numbers: See Technical Specifications Chart

Connects actuator to syringe barrel.

Features:

- No tool syringe changeover.
- No contact with adhesive: disposable syringes are the only component in contact with the adhesive.
- No adhesive downloading: directly accepts LOCTITE brand prefilled syringes, plus many other brands.

Also available, 98501 – LOCTITE Applicator Holder. See page 69.

LOCTITE® Posi-Link™ Syringe Nest Selection			
5 ml Syringe	10 ml Syringe	25 ml Syringe	Used With
98643	98644	98645*	LOCTITE Posi-Link™ 5-25 Actuator
N/A	98639	98640	LOCTITE Posi-Link™ 10-50 Actuator

* 98645 can only be used with product viscosity up to 5,000 cP. Use 98379 (actuator below) and 98640 (nest) for 25 ml syringes over 5,000 cP. Suitable for handheld applications.

TECHNICAL SPECIFICATIONS		
PRODUCT		
	LOCTITE Posi-Link™ Controller	LOCTITE Posi-Link™ 10-50 Actuator
Item Number	98377	98379
Power Source	9 ft. communication cable to actuator	100/240 VAC; 47/63 Hz
Dimensions	5.375" H x 6" D x 6" W	34" H x 4" D x 5" W
Total Weight	2 lbs.	13 lbs.
Dispense Head Weight	N/A	1.5 lbs.
Air Supply	N/A	40 to 100 psi
Posi-Link™ Electro/Hydraulic Tether	N/A	7 ft.
Minimum Dispense Volume[1], Syringe	N/A	0.003 ml
Dispense Rate[2]	N/A	0.008 to 0.4 ml/second
Maximum Cycle Rate	N/A	1 cycle per second
Parts Included	(1) Posi-Link™ Controller (1) Foot Switch	(1) Posi-Link™ Actuator (1) 9 ft. Communication Cable (1) Air Inlet Pressure Regulator/Gauge (2) Wall or Table Mounting Bracket (1) 110 Power Cord (1) Instruction Manual
Additional Accessories Sold Separately	988896 – LOCTITE Syringe Finger Switch	1174337 – LOCTITE Micro Dispense Scale

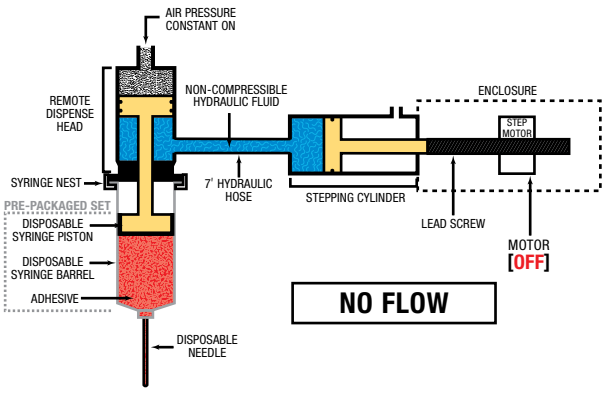
[1] Maximum dispense volume is settable to 0.001 ml, but becomes consistent at specified minimum in most applications.
[2] Maximum dispense rate varies based on adhesive viscosity and needle selection.

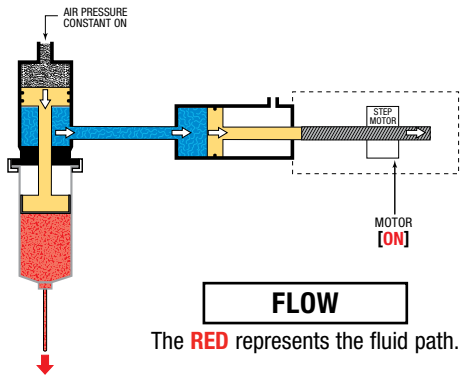
LOCTITE® Posi-Link™ Actuator Functionality Diagram

Theory of Operation

A disposable syringe is effectively used as a metering piston/cylinder. Because the syringe barrel is of a known and constant diameter, a given incremental movement of the syringe piston will displace a known volume of adhesive within the syringe barrel. The controller unit is programmable to initiate a dispense cycle at the specific volumetric amount. It controls the electronic signaling that activates the step motor inside the actuator housing. External air pressure provides constant force on the plunger within the dispense head. With the initiation of a dispense cycle, the following three events occur simultaneously:

1. The step motor rotates a programmed number of revolutions, moving the lead screw and increasing the hydraulic volume of the stepping cylinder.
2. Hydraulic fluid flows from the remote dispense head to the stepping cylinder, releasing the plunger within the dispense head to travel downward in a controlled incremental movement.
3. As the dispense plunger travels the controlled increment, it displaces (dispenses) a calculated volume of adhesive from the syringe barrel.





The RED represents the fluid path.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® Precision Syringe Dispensing System

Item Number: 97006

Our top-of-the-line, pressure-time syringe dispenser.

Features:

- Precision air pressure regulator and digital display ensures consistent results.
- Vacuum suck-back feature prevents dripping and stringing.
- Detects ±10% variation from set pressure and alerts operator if detected.

901459 – LOCTITE Vertical Syringe Stand

TECHNICAL SPECIFICATIONS	
Power Supply	Selectable 90/260 VAC; 47/63 Hz
Air Supply	Minimum – 30 psi
Pressure Regulator	0 to 100 psi
Product Viscosity	Low to Paste
Dispense Time Range	0.01 to 99.9 seconds
Dimensions	5.9" W x 9.0" H x 10.4" D
Weight	6.17 lbs.
Used to Dispense	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers
Package Types & Sizes	3 ml, 5 ml, 10 ml, 30 ml and 55 ml syringes / 300 ml cartridges
Parts Included	(1) Digital Syringe Controller (1) Foot Switch (1) Power Cord (1) Manual
Air Line Adapters *(Required for syringe dispensing: see page 69.)*	For 3 ml syringe dispensing: order 98656 For 5 ml syringe dispensing: order 98657 For 10 ml syringe dispensing: order 97208 or 97216 For 30 ml syringe dispensing: order 97245 or 97294 For 55 ml syringe dispensing: order 97245 or 98416
Additional Information	For Syringe Accessories, see pages 69-70. For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

988896 – LOCTITE Syringe Finger Switch Assembly. Used in place of the foot switch to allow finger actuation while holding the syringe barrel.

1174337 – LOCTITE Micro Dispense Scale

98501 – LOCTITE Applicator Holder

901459 – LOCTITE Vertical Syringe Stand

LOCTITE® EQ SD10 Digital Syringe Dispenser

Item Number: 1514629

The ideal blend of precision and value in syringe dispensing.

Features:

- Digital time/pressure/vacuum display.
- Easy teach and learn function.
- Manual/Timed/Cycle operation modes.
- Vacuum suck-back feature ensures no dripping.
- Stores up to 39 dispense programs.
- The unit can be integrated into customer's PLC programming to initiate a dispense cycle.

TECHNICAL SPECIFICATIONS	
Power Supply	100-240 VAC, 50-60 Hz
Operation Temperature	+50°F to +104°F (+10°C to +40°C)
Dispense Time Range	0.01 to 60 seconds
Dimensions	265 mm W x 72 mm H x 211 mm D
Weight	3.0 kg
Used to Dispense	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers
Package Types & Sizes	3 ml, 5 ml, 10 ml, 30 ml and 55 ml syringes / 300 ml cartridges
Parts Included	(1) EQ SD10 Digital Syringe Dispenser (1) Operating Manual (1) Power Supply (1) Foot Switch (1) Syringe Barrel Stand (1) Syringe Test Kit (1) 30/55 cc Syringe Air Line Adapter
Air Line Adapters *(Required for syringe dispensing, see page 69.)*	For 3 ml syringe dispensing: order 98656 For 5 ml syringe dispensing: order 98657 For 10 ml syringe dispensing: order 97208 or 97216 For 30 ml syringe dispensing: order 97245 or 97294 For 55 ml syringe dispensing: order 97245 or 98416
Additional Information	For Syringe Accessories, see pages 69-70. For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

98501 – LOCTITE Applicator Holder

1174337 – LOCTITE Micro Dispense Scale

LOCTITE® Digital Syringe Dispensing System

Item Number: 883976

Top choice for economical yet effective syringe dispensing.

Features:

- Manual, Incremental and Timed Modes allow a choice of adhesive dispensing methods.
- Vacuum suck-back feature prevents dripping and stringing.
- Convenient "teach mode" to set time required for desired dispense amount or volume.
- The unit can be integrated into customer's PLC programming to initiate a dispense cycle.
- Units can be stacked securely to save workspace.

901459 – LOCTITE Vertical Syringe Stand

TECHNICAL SPECIFICATIONS	
Power Supply	Universal Power Supply 110/230 VAC; 50/60 Hz
Air Supply	35 to 100 psi, ¼" FNPT
Pressure Regulator	0 to 100 psi
Product Viscosity	Low to Paste
Dispense Time Range	0.020 to 60 seconds
Dimensions	6.0" W x 7.1875" H x 7.6875" D
Weight	2.6 lbs.
Used to Dispense	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers
Package Types & Sizes	3 ml, 5 ml, 10 ml, 30 ml and 55 ml syringes / 300 ml cartridges
Parts Included	(1) Digital Syringe Dispenser with Universal Power Cord (1) Foot Switch with Cord Lock (1) Manual (1) 10 ml & (1) 30 ml Syringe Adapter (1) Syringe Stand (1) 6 mm OD Air Line x 6 ft. (4) Air Supply Fittings (1) Air Line Support Mast (1) Needle Sample Kit
Additional Air Line Adapters *(Available for syringe dispensing; see page 69.)*	For 3 ml syringe dispensing: order 98656 For 5 ml syringe dispensing: order 98657 For 10 ml syringe dispensing: order 97208 or 97216 For 30 ml syringe dispensing: order 97245 or 97294 For 55 ml syringe dispensing: order 97245 or 98416
Additional Information	For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

1174337 – LOCTITE Micro Dispense Scale

988896 – LOCTITE Syringe Finger Switch Assembly. Used in place of the foot switch to allow finger actuation while holding the syringe barrel.

901459 – LOCTITE Vertical Syringe Stand

98501 – LOCTITE Applicator Holder

LOCTITE® Foot Pedal Dispenser

Item Number: 98050

For "hands-free" actuation.

Features:

- Simple hands-free operation.
- Easy-to-read adjustable pressure regulator, 20 to 100 psi.
- Designed as floor unit to eliminate the need for bench space.

TECHNICAL SPECIFICATIONS	
Air Input	60 to 100 psi
Air Output	20 to 100 psi
Product Viscosity	Low to Paste
Vacuum Suck-Back	1 to 15" Hg vacuum
Dimensions	8.0" W x 4.675" H x 5.0" D
Weight	4.1 lbs.
Used to Dispense	Gel Adhesives, Instant Adhesives, Light Cure Acrylics
Package Types & Sizes	3 ml, 5 ml, 10 ml, 30 ml and 55 ml syringes / 300 ml cartridges
Parts Included	(1) Foot Pedal Dispenser (Air Line Adapter sold separately) (1) Manual
Air Line Adapters *(Required for syringe dispensing; see page 69.)*	For 3 ml syringe dispensing: order 98656 For 5 ml syringe dispensing: order 98657 For 10 ml syringe dispensing: order 97208 or 97216 For 30 ml syringe dispensing: order 97245 or 97294 For 55 ml syringe dispensing: order 97245 or 98416
Additional Information	For Syringe Accessories, see pages 69-70. For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

901459 – LOCTITE Vertical Syringe Stand

1174337 – LOCTITE Micro Dispense Scale

98501 – LOCTITE Applicator Holder

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Visit us on the web for additional information, diagrams, products and our full line of equipment.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® EQ HM20 PUR Dispense System

The LOCTITE® 30 ml PUR Syringe Dispense System is a precision dispenser designed to apply dots or beads of LOCTITE PUR hot melt and liquid tape adhesive products packaged in 30 ml syringe barrels. The system precisely controls the amount of air pressure applied to the syringe barrel for a set period to deliver a consistent amount of adhesive when it is actuated. The system is designed to be used with LOCTITE Benchtop Robots or can integrate into any stationary work cell.

Product Features:

- Up to 180°C heating temperature with heat resistance safety enclosure.
- Integrated dispense time, pressure, and temperature control features all in one system.
- Two independent temperature control channels: designed for either the Dispense Head or Pre-Heater.
- Digital control for Dispense Head temperature, Pre-Heater temperature, and dispense timer.
- Upper and lower limited alarm temperature setup and alarm signal output to PLC.
- Analog air pressure regulator for syringe pressure control.
- Dispense sequence can be foot-switch actuated or externally actuated via another control source.
- Auto dispense mode for timed dispense control of beads and drops.
- Manual dispense mode for variable volume applications.
- Reduced material change over time when used with PUR Pre-Heater.
- Optional needle tip heater for improved performance after return to work.

EQ HM20 PUR SYSTEM TECHNICAL SPECIFICATIONS		
Dispense Time Range		0 – 99.99 seconds
Air Input		Clean, dry air not to exceed 125 psig (8.5 bar), and filtered with a maximum of 50 micron
Regulation Range of the Pressure Regulator		0 – 7 bar (0 – 100 psi)
Power		Supply: 240 V/50 – 60 Hz, 2.0A Internal: 24 VDC
Controller Dimensions	**Width**	250 mm
	Depth	160 mm
	Height	265 mm
	Valve Dimensions	174.2 x 118 x 66 mm
Dispense Head Weight		710 g
Minimum Flow Rate (25 ga tip)		1 mg/seconds*
Maximum Flow Rate (18 ga tip)		73 mg/seconds*

** For reference only; this is not a specification. Flow rates were established dispensing LOCTITE 3542.*

Additional Accessories Sold Separately	
1667508 – LOCTITE SD15 Heat Controller	2033849 – LOCTITE EQ HM20 PUR Needle Pre-Heater *(requires IDH 1667508 SD15 Heat Controller)*
The LOCTITE SD15 Heat Controller and SD15 Tip Heater are accessories designed for use with the LOCTITE PUR 30 ml dispensing system. They can be integrated with a LOCTITE Robot and keep the needles warm when the PUR dispenser is not being used. This will enhance first piece performance when going back to work.	

LOCTITE® EQ HM20 PUR Controller

Item Number: 2033850

- 1 PUR-Controller 30 ml Syringe
- 1 Foot Switch
- 1 User Manual
- 1 Power Cord
- 1 — 6 mm Air Feed Line
- 1 — 4 mm Air Feed Line

LOCTITE® EQ HM20 PUR Pre-Heater

Item Number: 2033861

- 1 PUR Pre-Heater – 30 ml
- 1 PUR Pre-Heater Cable

LOCTITE® EQ HM20 PUR Dispense Head

Item Number: 2016756

- 1 PUR Dispense Head – 30 ml
- 1 Mounting Plate to LOCTITE Benchtop Robot
- 1 Dispense Tip Sample Kit
- 1 PUR Dispensing Head Cable

SD 15 TECHNICAL SPECIFICATIONS		
Power		Supply: 220VAC/50-60 Hz Internal: 24 VDC
Dimensions	**Width**	127 mm
	Depth	194 mm
	Height	73 mm
Operation Temperature		+ 10°C + 40°C
Storage Temperature		- 10°C + 60°C
Weight		1.5 kg

Additional Accessories Sold Separately	
LOCTITE PART NUMBER	**DESCRIPTION**
985397	LOCTITE Air Filter, Regulator, Gauge
97201	Foot Switch Assembly
1483249	Needle–All SS, 1/2" 18G, 12 pk.
1483250	Needle–All SS, 1/2" 20G, 12 pk.
1483262	Needle–All SS, 1/2" 21G, 12 pk.
1483264	Needle–All SS, 1/2" 23G, 12 pk.
1483265	Needle–All SS, 1/2" 25G, 12 pk.
1500889	Needle–All SS, 1/2" 19G, 12 pk.

Dispense Systems – Tube Bonding

Henkel offers a system to dispense light cure acrylic adhesives to the outer diameter of tubing.

LOCTITE® Light Cure Acrylic Adhesive Dispensing System

Item Number: 98445

Provides effective and uniform coating of light cure acrylic adhesives to the outer diameter of tubing without adhesive getting into the internal surface of the tube.

Adhesive Compatibility

This unit is designed for use with light cure acrylic adhesives only. It should not be used with cyanoacrylates or light cure cyanoacrylates.

Features:

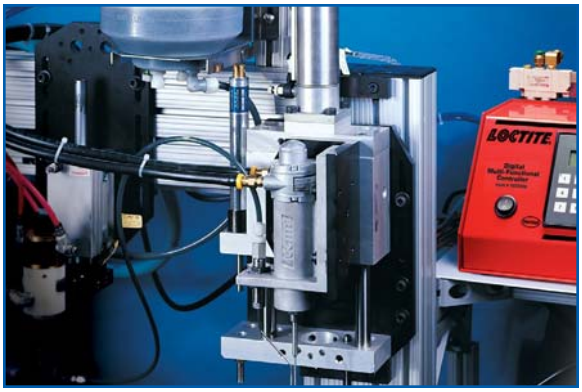
- Bushing design ensures no adhesive contamination of internal tube surface.
- Easy adhesive adjustment allows operator to optimize adhesive dispense amount.
- Optional bushings allow a variety of tube diameters.
- Design prevents light exposure of adhesive in the dispenser.
- Built-in adhesive level sight glass.

LCA Tubing Adhesive Applicator Bushing Selection Guide (Standard Bushing)		
Item Number	**Description**	**Tubing OD Range**
989038	2 mm (0.079")	0.59" to 0.088"
989039	3 mm (0.118")	0.089" to 0.128"
989040	4 mm (0.157")	0.128" to 0.167"
989041	5 mm (0.197")	0.168" to 0.207"
989042	6 mm (0.236")	0.208" to 0.246"

TECHNICAL SPECIFICATIONS	
Utilities	110 VAC; 10 amps; 60 Hz
Overall Dispenser Dimensions	9.0" H x 6.0" Diameter Base
Overall Transformer Dimensions	2.3" H x 3.5" W x 4.2" D
Weight	*Dispense Unit* – 7.7 lbs. / *Transformer* – 1.25 lbs. (Not Shown)
Adhesive Volume of Dispenser	30 ml
NOT RECOMMENDED FOR TUBING BELOW 70 SHORE A	
Parts Included	(1) Light Cure Acrylic Adhesive Dispensing System (1) Transformer (1) Retaining Ring Pliers (1) Manual (1) Power Cord

Dispense Systems – Controllers & Reservoirs

LOCTITE® brand controllers and reservoirs can be used as the chief components, along with a selection of LOCTITE brand parts and accessories or with your own parts, to create a complete custom dispensing system designed to meet your specific needs and manufacturing goals. Selection of a LOCTITE brand controller and reservoir is based on the adhesive or fluid being used, the package or container the adhesive or fluid is supplied in, and the overall requirements of the manufacturing process.



PRODUCT		Item Number	Controlled Outputs	Number of Dispense Valves	Advancing Slide	Rotorspray
Single Function Controllers – *Select to operate a single dispense valve.*						
	LOCTITE Digital Dispense Controller	97101	1	1	N/A	N/A
Multi-Function Controllers – *Select when you need more functionality than just single valve dispensing.*						
	LOCTITE Dual-Channel Automatic Controller	97152	2	2 (Dependent)	97119 – 100 mm	97115
	LOCTITE Spray Valve Controller	1406023	1	1	N/A	N/A
	LOCTITE Digital Multi-Functional Controller	1022006	3	3 (Independent)	984691 – 50 mm	In conjunction with LOCTITE Positive Displacement Pump – 983330, see page 60.

PRODUCT		Item Number	Pressure Regulation	Used to Dispense	Package Types & Sizes	Viscosity Range	Low Level Sensing
Reservoirs – *Select your reservoir based on product viscosity and need for low level sensing.*							
	LOCTITE Bond-A-Matic® 3000 Reservoir	982720	0 to 15 psi	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	250 ml bottle 1 lb. bottle 1 liter bottle 2 kg bottle 200 g squeeze tube	Low to Medium	Yes
		982726					No
		982723	0 to 100 psi			Medium to High	Yes
		982727					No

LOCTITE® Dual-Channel Automatic Controller

Item Number: 97152

The LOCTITE® Dual-Channel Controller is a versatile, multifunction controller for actuating one or two dispensing valves as well as appropriate peripheral equipment such as an advancing slide, LOCTITE Electric Rotorspray, and in-line flow monitor or reservoir. Reservoir pressure is controlled by a precision regulator and measured by a digital transducer.

Features:

- Fully programmable, independent controller with permanent software setup.
- Front-mounted keyboard and multilingual display for easy system programming and dispense valve control.
- Digital pressure readout for precise electronic pressure regulation and monitoring of reservoir and valve dispensing.
- Digital time display and control of valve dispensing.
- Capable of controlling one or two dispense valves independently with advancing slide and LOCTITE Electric Rotorspray unit.

TECHNICAL SPECIFICATIONS	
Power Supply	90/260 VAC; 47/63 Hz
Air Input	58 to 116 psi (4 to 8 bar)
Air Output	1 to 100 psi (0.1 to 7 bar)
Number of Dispense Valves	2 (Independent)
Dimensions	9.0" H x 5.7" W x 10.2" Diameter
Weight	6.5 lbs. (3 kg)
Parts Included	(1) Automatic Controller (1) Pneumatic Tubing, 6 mm O.D. (1) Power Cord (1) Manual
Additional Information	For Dispense Tips, see pages 64-65.
Additional Accessories Sold Separately	
	Bond-A-Matic® 3000 Reservoirs (982720 or 982723)
	97119 – LOCTITE Advancing Slide (100 mm Stroke)
	97115 – LOCTITE Electric Rotorspray
	97211 – LOCTITE High Precision Dispense Monitoring System (See page 63.)

Note: If used with advancing slide, only one dispense valve can be controlled.

LOCTITE® Spray Valve Controller

Item Number: 1406023

Controller supplies two independent air signals and is designed to work integrally with the LOCTITE® Spray Valve (Item Number 98520).

Features:

- Microprocessor-based timed controller.
- Fully independent valve, open/close and atomization air supply.
- Three separate timed sequences – pre-spray, valve on, post-spray/valve off.
- Timed or manual mode with foot pedal control.
- All time modes maintained in memory with AC power disconnected.

TECHNICAL SPECIFICATIONS	
Power Source	90/260 VAC; 47/63 Hz
Air Supply	Minimum 30 psi
Number of Dispense Valves	1
Dimensions	2.5" H x 12.5" L x 7.6" D
Weight	5.5 lbs.
Parts Included	(1) Controller Unit and Power Cord (1) Foot Pedal (1) 4 ft. Air Supply Line and Filter

Additional Accessories Sold Separately

98520 – LOCTITE Spray Valve

982720 / 982726 – LOCTITE Bond-A-Matic® Reservoirs for Low Viscosity Adhesives

989268 – 0.014" Nozzle Kit
989269 – 0.028" Nozzle Kit

LOCTITE® Digital Multi-Functional Controller

Item Number: 1022006

Versatile, programmable controller designed to provide on/off digital timing and interface logic for up to three independent dispense/cure devices, pneumatic or electric.

Features:

- Keypad with LCD display to program the on/off times of multiple devices in 0.1 second increments.
- Interface connections for reservoir low level sensors, part present sensors, dispense confirmation sensors, slide position switches, electrical motors, indicator lights, foot switch, anti-tie-down switches, UV and LED curing lights, PLC communication, etc.
- Emergency Stop button on front face of the enclosure.
- Fully modular for optimum system configuration.

TECHNICAL SPECIFICATIONS	
Electrical	Input voltage 100/240 VAC; 50/60 Hz Internal voltage: 24 VDC
Air Input	60-100 psi-G, filtered, dry air at 1 CFM (minimum)
Number of Solenoid Valves	3 (Independent)
Dimensions	11.375" W x 9.125" D x 8.0" H
Weight	5 lbs.
Parts Included	(1) Digital Multi-Functional Controller (1) Foot Switch Assembly (1) 24 VDC Power Supply (1) Manual
Number of Dry Contact Relay Outputs in Parallel to Solenoids	3
Additional Information	For Spare Parts & Accessories, see pages 69-70.

Additional Accessories Sold Separately

98009 – LOCTITE Light Cure Dispense Valve

98013 – LOCTITE Cyanoacrylate Dispense Valve

97113 / 97114 – LOCTITE Stationary Applicator Valves

982726 / 982727– LOCTITE Bond-A-Matic® Reservoirs

982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors

1174337 – LOCTITE Micro Dispense Scale

1611449 – LOCTITE EQ VA10 Micro Diaphragm Valve

8900550 – LOCTITE PLC Interface Cable
1044249 – LOCTITE Cable Connector Plug Kit

LOCTITE® Digital Dispense Controller

Item Number: 97101

Digitally timed dispense control for all LOCTITE® brand automatic dispense valves.

Features:

- Convenient touch pad for dispense time control.
- Pneumatic output provides air pressure to a fluid pressure reservoir.
- Fluid low level indicator and output to allow protocol with plant PLC.
- Fully modular for use with the LOCTITE Bond-A-Matic® Reservoir or the LOCTITE 300 ml Cartridge Pusher and any dispensing valve.

TECHNICAL SPECIFICATIONS	
Electrical Utilities	90/260 VAC; 47/63 Hz
Air Input	70 to 145 PSIG filtered (10 micron), dry air at 1 CFM (minimum)
Number of Dispense Valves	1
Dimensions	9.5" H x 6.0" W x 11.0" D
Weight	4.6 lbs.
Parts Included	(1) Digital Dispense Controller (1) Power Cord (1) Foot Switch Assembly (1) Manual (1) Terminating Plug
Additional Information	For Spare Parts & Accessories, see pages 69-70.

Additional Accessories Sold Separately

98009 – LOCTITE Light Cure Dispense Valve

98013 – LOCTITE Cyanoacrylate Dispense Valve

97113 / 97114 – LOCTITE Stationary Applicator Valves

982726 / 982727– LOCTITE Bond-A-Matic® Reservoirs

982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors

1174337 – LOCTITE Micro Dispense Scale

1611449 – LOCTITE EQ VA10 Micro Diaphragm Valve

97130 – LOCTITE LV Handheld Applicator

LOCTITE® BOND-A-MATIC® 3000 RESERVOIR

Item Numbers: 982720, 982723, 982726 and 982727

Our most versatile and popular bottle reservoirs for a variety of adhesive viscosity and functionality. All reservoirs require your choice of controller and dispensing valves to complete your dispensing system.

Features:

- Can accommodate a variety of LOCTITE brand product packages.
- Available with optional low level sensor.
- All pneumatic operation.

TECHNICAL SPECIFICATIONS		
Air Output	982720: 0 to 15 psi	982723: 0 to 100 psi
	982726: 0 to 15 psi	982727: 0 to 100 psi
Product Viscosity	0 to 3,000 cP	> 3,000 cP
Low Level Sensing	982720: 24 VDC	982723: 24 VDC
Dimensions	13.25" H x 9.875" W x 14.125" D	
Internal Reservoir	10" H x 5" Diameter	
Weight	18 lbs. unfilled	
Used to Dispense	Gel Adhesives, Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	
Package Types & Sizes	250 ml, 1 lb., 1 liter, 2 kg bottles / 200 g squeeze tube	
Parts Included	(1) Bond-A-Matic® 3000 Reservoir with ¼" Tank Fitting (1) ¼" Feed Line and Spring Strain Relief (1) Anti-Bubble Tip and Sleeve (1) Squeeze Tube Adapter and Nut/Ferrule (982723 / 982727 only) (1) ⅜" Tank Fitting and Spring Strain Relief (982723 / 982727 only) (1) Manual (1) Tube of Silicone Grease	
Additional Information	For Spare Parts & Accessories, see pages 69-70.	

Additional Accessories Sold Separately	
Any LOCTITE Brand Dispensing Valve	
98009 – LOCTITE Light Cure Dispense Valve	98013 – LOCTITE Cyanoacrylate Dispense Valve
97113 / 97114 – LOCTITE Stationary Applicator Valves	97130 – LOCTITE LV Handheld Applicator
1611449 – LOCTITE EQ VA10 Micro Diaphragm Valve	May be used with all LOCTITE Controllers; see pages 15-18.

Benchtop, Handheld & Soft Pack Cartridge Dispensing

Dispensing from 300 ml cartridges has never been easier when you take charge with our LOCTITE® and TEROSON® dispensing systems, designed to support handheld or benchtop operations. Choose your unit based on your process requirements, product chemistry and viscosity as summarized below. Dispense directly from the package with no need for product downloading to syringe or other dispensing containers.

PRODUCT		Item Number	Pressure Regulation	Used to Dispense	Package Types & Sizes	Viscosity Range	Low Level Sensing
Pneumatic Cartridge Dispensing							
	LOCTITE High Pressure 300 ml Benchtop Cartridge Dispenser	1046901	0 to 725 psi	Silicone, Polyurethane, MS Polymer Adhesives	300 ml cartridges	10,000 to 1,000,000	Yes
	LOCTITE 300 ml Cartridge Pusher	98022	0 to 50 psi	Gel Adhesives, Anaerobic Gasketing, Light Cure Acrylics, Low Viscosity Silicones	300 ml cartridges 250 ml tubes	Medium	Yes
	LOCTITE EQ HD10 300 ml Pneumatic Cartridge Dispenser	1714379	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones	300 ml cartridges 250 ml tubes	Medium to High	No
	LOCTITE 300 ml Pneumatic Cartridge Dispensing Retainer	98319A	0 to 60 psi	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones	300 ml cartridges	Low to Medium	No
	TEROSON Multipress Telescopic Dispenser	142241	0 to 145 psi	Sprayable SMP Adhesives	300 ml cartridge	Low to High	N/A
	TEROSON Powerline II 300 ml Dispenser	960304	0 to 100 psi	MS Polymer Polyurethane	300/310 ml cartridge	Medium to Very High	N/A
Pneumatic Soft Pack Dispensing							
	LOCTITE Soft Press Handheld Pneumatic Applicator	250052	0 to 125 psi	Adhesives packaged in soft packs	400 ml, 500 ml 20 oz. soft packs	High	No
Manual Cartridge Dispensing							
	LOCTITE Manual Cartridge Applicator 300 ml	1093940	N/A	Henkel Construction Adhesives Caulking products in 10 oz. caulking tubes	300 ml cartridges	Medium to High	No

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® High Pressure 300 ml Benchtop Dispenser

Item Number: 1046901

Very convenient Benchtop Cartridge Dispenser designed for dispensing high viscosity, single-component adhesives and sealants packaged in 300 ml cartridges.

Features:

- High-pressure capability up to 725 psi (50 bar) product pressure.
- Minimal pressure fluctuation results in consistent product flow.
- Pump cycle rate: up to 200 cycles/minute (maximum).
- Up to 10-ft. feedline length.
- Accepts LOCTITE 300 ml cartridges.
- Product viscosities of 10,000-1,000,000 cP.
- Low level sensing capabilities.

TECHNICAL SPECIFICATIONS	
Input Voltage	110-240 VAC, 50/60 Hz
Rated Power	20 watts
Air Supply	85 psi (6 bar) maximum
Dimensions	14" W x 8.3" D x 27" H
Weight	11 lbs.
Operating Temp.	Temp: -4°F to +120°F (-20°C to +50°C)
Air Consumption	2.9 ft.³/min. (80 l/min.) maximum
Replacement Hoses	1241780 and 1241821
Additional Information	N/A

Theory of Operation

This dispenser is an integrated system for dispensing high viscosity materials packaged in 300 ml cartridges. The cartridge dispenser consists of three main components:

1. Pneumatic priming ram is used to provide a low pressure feed of adhesive to the reservoir block.
2. Reservoir block holds the product to be dispensed.
3. A 10:1 pump draws product from the reservoir block and amplifies the pressure by a factor of 10, and then feeds the product through a feedline to the valve.

The unit has two regulators to control the pressure of the pneumatic priming ram and the 10:1 pump. By increasing the pressure of either of these regulators, the outlet pressure of the dispenser will be increased. The primary product regulation should be controlled using the pump regulator, and the pneumatic ram regulator should be set to supply product at just enough pressure to feed the reservoir. The 110-240 VAC power cable plugs to the electrical junction box and supplies power to the 10:1 pump via the low level relay. The low level sensor is mounted to the pneumatic priming ram to indicate when the adhesive cartridge is empty. When activated, the low level sensor will provide a signal to the COM port on the electrical box and turn the 10:1 pump off.

LOCTITE® 300 ml Cartridge Pusher

Item Number: 98022

Lower viscosity single-component dispenser.

Features:

- Mechanical ram provides product pressure, eliminating risk of inducing air into product, as is the case with pneumatic dispensers.
- Equipped with a low level sensor that can be integrated to a PLC or any LOCTITE brand digital controller.
- A grease reservoir is included that continually applies a thin film of grease to the plunger shaft to maintain free operation of the ram.
- Integral air pressure regulator/gauge.
- The cartridge retainer can be removed for easy maintenance.
- Can be mounted vertically or horizontally.

TECHNICAL SPECIFICATIONS	
Air Inlet	⅛" female NPT
Air Input	50 psi maximum
Product Viscosity	Low to Medium Gel Adhesives
Dimensions	8.375" H x 5.8" W x 25.375" Length
Weight	10.6 lbs.
Used to Dispense	Gel Adhesives, Anaerobic Gasketing, Light Cure Acrylics, Low Viscosity Silicones
Package Types & Sizes	250 ml tube / 300 ml cartridge
Parts Included	(1) 300 ml Cartridge Pusher (1) Fitting Kit (1) Manual
Additional Information	For Dispense Tips & Cartridge Accessories, see pages 64-65.
Used With	97101 LOCTITE Digital Dispense Controller 1022006 LOCTITE Digital Multi-Functional Controller

LOCTITE® EQ HD10 300 ml Pneumatic Cartridge Dispenser

Item Number: 1714379

Top-choice, handheld 300 ml pneumatic dispenser.

Features:

- Integrated pressure regulator for flow control.

TECHNICAL SPECIFICATIONS	
Air Inputs	145 psi maximum with 300 ml cartridge 22 psi maximum with 250 ml squeeze tubes
Pneumatic Connection	Thread Diameter: ¼" – 19 BSPP
Dimensions	8.0" H x 13.5" L x 1.5" D
Weight	1.8 lbs. (800 g)
Used to Dispense	Gel Cyanoacrylates, Structural Acrylics, Silicones, Anaerobic Flange Sealants
Package Types & Sizes	300 ml cartridges
Parts Included	(1) 300 ml Pneumatic Cartridge Dispenser (1) Manual (1) Quick Disconnect Coupling and Gasket
Additional Information	For Cartridge Accessories, see page 65.
Used With	Direct pneumatic air supply
Additional Accessories Sold Separately	
989347 – Adapter for 250 ml Squeeze Tubes	

LOCTITE® 300 ml Pneumatic Cartridge Dispenser Retainer

Item Number: 98319A

Mountable pneumatic cartridge dispenser.

Features:

- Quick twist open/close cap.
- 60 psi maximum.

TECHNICAL SPECIFICATIONS	
Air Inputs	70 psi maximum with 300 ml cartridge
Product Viscosity	Low to Medium
Dimensions	10.0" L x 2.5" D
Weight	1.8 lbs. (800 g)
Used to Dispense	Gel Cyanoacrylates, Anaerobic Gasketing, Light Cure Acrylics, Silicones
Package Types & Sizes	300 ml cartridges
Parts Included	(1) 300 ml Pneumatic Cartridge Dispensing Retainer and Cap
Additional Information	For Cartridge Accessories, see page 65.
Used With	883976 LOCTITE Digital Syringe Dispensing System; see page 12.

LOCTITE® 300 ml Soft Press Handheld Pneumatic Applicator

Item Number: 250052

High viscosity dispenser for products in soft packs.

Features:

- Drawn aluminum barrel.
- Instant air dump valve.
- Floating pusher action with secure cord.
- Adjustable air regulator – 125 psi maximum output.
- Silenced air exhaust.
- Quick release end cap.

TECHNICAL SPECIFICATIONS	
Air Inputs	145 psi Maximum
Pneumatic Connection	Thread Diameter: ¼" – 19 BSPP
Dimensions	21 5/16" L x 9 7/8" H x 2 11/16" D
Weight	1.5 lbs.
Package Types & Sizes	400 ml, 500 ml, 20 oz. Soft Packs
Parts Included	Manual, Applicator Nozzle, Air Hose Connector
Used With	Direct Pneumatic Air Supply
Replacement Parts	582416 – Soft Press Applicator Nozzle

TEROSON® MULTIPRESS PNEUMATIC DISPENSER

Item Number: 142241

Pneumatic dispenser for spray applications of sealants and adhesives packaged in 300 ml cartridges.

Features:

- The material flow and spray air can be regulated independently for fine control.
- Telescopic cylinder provides hermetic separation of the adhesive and air.
- Capable of dispensing both spray and bead patterns.
- Compact and rugged construction.

TECHNICAL SPECIFICATIONS	
Input Pressure	145 psi maximum
Internal Working Pressure	0 to 100 psi
Compressed Air	Free of dirt, dry, lightly oiled
Compressed Air Connection	1/4-19 BSPP
Dimensions	15.3" L x 9.5" H x 2.8" D
Weight	2.2 lbs. (1 kg)
Environmental Temperature	0° to 140°F
Used to Dispense	Sprayable SMP Adhesives
Package Types & Sizes	300 ml cartridges
Parts Included	(1) Quick Disconnect Air Line Connector, (1) Tool for piercing aluminum cartridges, (1) Blue nozzle cap, (1) Black nozzle cap
Optional Accessories Sold Separately	
395397 – TEROSON Cartridge Opener 1271651 - 300 ml Cartridge Heater 65°C 110V	
Additional Accessories Sold Separately	
547882 – TEROSON Multi-Press Spray Nozzle (12 pack)	

TEROSON® POWERLINE II 300 ML DISPENSER

Item Number: 960304

High pressure cartridge dispenser for high viscosity pastes.

Features:

- Mechanical ram (rather than air pressure) is used to advance adhesive out of cartridge.
- No air is introduced into the cartridge from the gun, thus eliminating popping and sputtering of product while dispensing.
- Integral air pressure gauge allows for better control of dispense rate.
- High mechanical advantage (3:1) allows increased capability to dispense high viscosity pastes much faster.

TECHNICAL SPECIFICATIONS	
Dimensions	Approx. 540 x 250 x 100 mm
Weight	Approx. 3.5 lbs. (1.6 kg)
Pressure-bearing Volume	Approx. 1.3 liters
Cartridge Length	214 mm - 220 mm
Cartridge Diameter	45 mm - 50 mm
Ambient Temperature	0°C ... +55°C
Input Pressure	Maximum 10 bar
Internal Working Pressure	Adjustable via regulator valve 0.5-7 bar
Conversion Ratio, Pressure Amplification	3:1
Safety Valve	Safety valve release pressure - 8 bar
Compressed Air	Contamination-free, dry, lubricated
Compressed Air Connection	Pin for coupling system DN7, 2
Materials of the Pressure-bearing Parts	PA6, glass fiber reinforced
Used to Dispense	MS Polymer Polyurethane, SMPs, Polyurethanes
Package Types & Sizes	300/310 ml cartridge
Optional Accessories	
1470999 - TEROSON Widestream Nozzle (10 pack)	

Volumetric Dispensing

LOCTITE® Posi-Link™ Dispense System for Dual Cartridges

When you need high precision dispensing from your prepackaged dual cartridge adhesive, the LOCTITE® Posi-Link™ Dispense System is the solution. This system offers dispensing accuracy well beyond any pneumatic cartridge dispenser, down to 0.001 ml drop size. This system specifically excels at eliminating dispense variability due to continuously changing viscosity (curing) in the mix nozzle. It can easily be integrated into any automated process and provide process feedback to a plant PLC. Select your system based on cartridge size and adhesive ratio requirements. You can choose 50 ml packages for any 1:1, 2:1 or 10:1 ratio product.

Complete LOCTITE® Posi-Link™ Dual Cartridge System				
For 50 ml Dual Cartridges:				
	Controller +		*Actuator* +	*Nest*

(Each Item Sold Separately)

LOCTITE® Posi-Link™ Controller

Item Number: 98377

Provides all operator interface and control signals to actuator.

Features:

- **Dose** selection by volume.
- **Easy programming** controller, with storage capacity for 25 user-defined programs; reduces adhesive setup waste.
- **Small footprint** to conserve benchtop space.
- **Automatic cartridge engagement** to ensure easy and error-free cartridge changeover.
- **Adhesive level monitoring** with low level visual and digital outputs.
- **Fault detection** with visual and digital outputs for clogged nozzles, loss of pressure and system faults.
- **In-cycle** visual and digital outputs.
- **Foot switch, finger switch or PLC** remote start activation.

LOCTITE Posi-Link™ 10-50 System, Integrated Robotic Solution using a 50 ml dual cartridge, and showing wall-mounted Actuator.

LOCTITE® Posi-Link™ Actuator

Item Numbers: 98379

Provides adhesive dispensing by effecting incremental movements of dual pistons and displacing programmable qualities of adhesive within the cartridge, regardless of viscosity changes in the mix nozzle.

PRODUCT	Item Number	Dual Cartridge Size
LOCTITE Posi-Link™ 10-50 Actuator	98379*	50 ml

* See pages 9-10 for use with syringes.

Features:

- **Flexible orientation** in any position.
- **Easily fits** below an industrial workbench or wall mounts with supplied brackets to conserve benchtop space.
- **Lightweight** remote dispense head has a “positive link” to actuator via a 7-ft. tether, allowing ergonomic handheld dispensing or mounting directly on robotic arms.
- **Easily attaches** to the dual cartridge nests (sold separately) to accommodate alternate cartridge barrel sizes.
- **Mechanically linked** dual plungers guarantee proper ratios are achieved.
- **Positive shutoff** pinch tube available, which directly attaches to the mix nozzle, eliminating dripping.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® Posi-Link™ 50 ml Dual Cartridge Nest

Item Number: See chart

Connects the actuator to the dual cartridge.

Dual Cartridge Nest Features:

- **No tool** cartridge changeover.
- **No contact** with adhesive; disposable syringes are the only component in contact with the adhesive.

Theory of Operation

A disposable dual cartridge is effectively used as a dual metering piston/cylinder. Because the individual chambers of a dual cartridge are of a known and constant diameter, a given incremental measurement of the dual pistons will displace a known volume of adhesive within each chamber at an exact ratio. This dual cartridge system functions identically to a LOCTITE® Posi-Link™ Syringe System, except that it has two plungers within the dispense head. These plungers simultaneously act on two chambers within the dual cartridge. See Functionality Diagram on page 10.

LOCTITE® Posi-Link™ Dual Cartridge Nest Selection		
1:1 / 2:1 – 50 ml Cartridge	10:1 – 50 ml Cartridge	Used With
98641	98642	98379 – LOCTITE Posi-Link™ 10-50 Actuator

LOCTITE® Pinch Tube Valve

Item Number: 97141

Features:

- Valve attaches directly to the end of the square mix nozzle.
- Provides positive no-drip shutoff, using disposable pinch tube elements.

For 50 ml Dual Cartridges:
OPTIONAL: 97141 Valve + 97541 (10 pack) Replacement Tube Inserts + 98671 Solenoid Valve

TECHNICAL SPECIFICATIONS		
PRODUCT		
	LOCTITE Posi-Link™ Controller	LOCTITE Posi-Link™ 10-50 Actuator
Item Number	98377	98379
Power Source	9 ft. communication cable	100/240 VAC; 47/60 Hz
Dimensions	5.375" H x 6" D x 6" W	34" H x 4" D x 5" W
Total Weight	2 lbs.	13 lbs.
Dispense Head Weight *(Includes Nest and Pinch Tube Valve)*	N/A	2.0 lbs.
Air Supply	N/A	40 to 100 psi
Posi-Link™ Electro/ Hydraulic Tether	N/A	7 ft.
Minimum[1] Dispense Volume	N/A	0.01 ml
Dispense Rate[2]	N/A	0.009 to 0.4 ml/second
Maximum Cycle Rate	N/A	1 cycle per second
Used to Dispense	N/A	All dual 50 ml cartridge 1:1 / 2:1 / 10:1 ratio adhesives
Parts Included	(1) LOCTITE Posi-Link™ Controller (1) Foot Switch	(1) LOCTITE Posi-Link™ Actuator (1) 9 ft. Controller/Actuator Signal Cord (1) 110 Power Cord (1) Air Inlet Pressure Regulator Gauge (1) Wall or Table Mounting Bracket (1) Instruction Manual
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.	

LOCTITE® COMPACT ROTOR PUMP DISPENSE SYSTEM

The LOCTITE® Rotor Pump Dispenser (with Controller) is a rotating volumetric displacement system that provides a high level of repeatability while dispensing adhesives out of a product reservoir. The system can apply LOCTITE products such as anaerobics, acrylates, and UV acrylates for bead, drop, or potting applications with a high level of precision. Designed for use with LOCTITE benchtop robots, or can integrate into any stationary work cell.

LOCTITE® EQ RC15 Pump Controller

Item Number: 1880232

Features:

LOCTITE Rotor Pump Dispensers

- Product viscosities up to 100,000 mPas.
- Flow rate is proportional to speed and electronically controlled.
- Reversible direction of flow (suck back) allows for exact stoppage of product flow.
- Integrated Luer-Lok adapter with O-Ring ensures sealing in reverse flow.

LOCTITE Rotor Pump Controller

- Provides a wide range of options for adjusting the desired quantity of product to be dispensed.
- All production data can be stored on an SD card and retrieved at any time.
- A graphical user interface is provided for intuitive operator interaction.
- For inline manufacturing, status messages (ready, empty, fault) can be analyzed by a higher ranking controller.

TECHNICAL SPECIFICATIONS	
Power Supply	100-240 VAC, 50/60 Hz
Power Consumption	80 W
Dispense Start	Pushbutton, foot switch, 24 V signal
Operation Modes	Quantity, time, start/stop
Compressed Air Supply	Min. 4 bar, Max. 6 bar
Pneumatic Connections	6 mm (outer diameter)
Interfaces	XS1 Start, XS2 Reservoir, XS10 PLC, XS16 Rotorspray
Dimensions	150 mm W x ~ 230 mm H x 270 mm D
Operating Temperature	+10°C to +40°C
Weight	Approx. 3 kg

LOCTITE® Compact Rotor Pump Dispenser 4.0

Item Number: 1196160

- Compact Rotor Pump Dispenser with stator and drive unit.
- Mounting tool.
- Feedline OD 6 mm, length 2 m.
- Operating manual.

TECHNICAL SPECIFICATIONS	
Dimensions	(LxØ): 220 mm x Ø 35 mm
Weight	0.380 kg
Volume Per Revolution	Theoretically 0.05 ml
Accuracy[1]	±1%
Volume Flow	0.05 to 6.0 ml/minute
Input Pressure	0 – 6 bar
Max. Dispensing Pressure	16 – 20 bar
Intrinsic Tightness[2]	Approximately 2 bar
Number of Revolutions	0 to 120 rpm
Storage Temperature	-10°C to +60°C (+14°F to 140°F) dry/dust-free
Operating Temperature	+10°C to +40°C (+50°F to +104°F)
Spare Parts	1335043 – Repair Kit, consists of 2 O-rings each: 2.9 x .06 (FKM), 13 x 1.25 (FFKM), 13 x 1.5 (FKM), 16 x 1.25 (FKM), 17 x 1.25 (FKM)
	1335041 – Stator with Housing 1335042 – Pump Unit without Motor 1335000 – Sealing Set with Housing
Accessories	142646 – ¼" PTFE Lined Tube 2002418 – Single Rotor Pump Fluid Kit

LOCTITE® Compact Micro Rotor Pump Dispenser 1.0

Item Number: 1741601

- Compact Rotor Pump Dispenser with stator and drive unit.
- Mounting tool.
- Feedline OD 6 mm, length 2 m.
- Operating manual.

TECHNICAL SPECIFICATIONS	
Dimensions	(LxØ): 206 mm x Ø 33 mm
Weight	0.380 kg
Volume Per Revolution	Theoretically 0.012 ml
Accuracy[1]	±1%
Volume Flow	0.0012 to 1.48 ml/minute
Input Pressure	0 – 6 bar
Maximum Dispensing Pressure	16 – 20 bar
Intrinsic Tightness[2]	Approximately 2 bar
Number of Revolutions	0 to 120 rpm
Storage Temperature	-10°C to +60°C (+14°F to 140°F) dry/dust-free
Operating Temperature	+10°C to +40°C (+50°F to +104°F)
Spare Parts	1681290 – Repair Kit, consists of 2 O-rings each: 2.9 x .06 (FKM), 13 x 1.25 (FFKM), 13 x 1.5 (FKM), 16 x 1.25 (FKM), 17 x 1.25 (FKM)
	1681289 – Stator with Housing 1681291 – Pump Unit without Motor 1335000 – Sealing Set with Housing
Accessories	142646 – ¼" PTFE Lined Tube 2002418 – Single Rotor Pump Fluid Kit

Reference Medium: Approximately 1.000 mPas at 20°C.
1 Volumetric dosing as absolute deviation relative to one dispenser rotation. Depending on the viscosity of the dispensing medium.
2 Maximum dispensing pressure and self-sealing decrease with decreasing viscosity and increase with increasing viscosity.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

Two-Component Volumetric Dispensing – Meter Mix Systems

When your two-part adhesive application takes on a larger dimension, Henkel has the two-component dispense solution with our LOCTITE® meter mix volumetric dispense systems. You can choose either fixed and variable ratio units and, together with a wide selection of accessories, customize your system to meet your application requirements.

LOCTITE® DUAL ROTOR PUMP SYSTEM

The LOCTITE® Dual Rotor Pump Dispense System is a rotating volumetric displacement system that provides precise application of LOCTITE two-part adhesives from product reservoirs, pail pumps, or a dual cartridge pusher. The MM25 Dual Rotor Pump can apply LOCTITE products such as 2-part MMAs, epoxies, polyurethanes, and silicones with a high level of repeatability and accuracy. Designed for use with LOCTITE benchtop robots, or can integrate into any stationary work cell.

LOCTITE® MM25 Dual Rotor Pump

Item Number: 1774437

Features:

- Product viscosities up to 200,000 mPas.
- Flow rate is proportional to speed and electronically controlled.
- Reversible direction of flow (suck back) allows for exact stoppage of product flow.
- Variable Ratio System.
- Positive Displacement: Dispense quantities are not affected by external process changes (temperature, viscosity, etc.)

TECHNICAL SPECIFICATIONS	
Product Group	2-part MMA, Epoxy, Silicone, Polyurethane
Minimum Dispensing Quality	0.005 ml each pump
Theoretical Volume Flow	0.1 to 6 ml/minute each pump
Accuracy ml±, Absolutely	±1%
Mixing Ratio	1:1 to 10:1
Operating Pressure (Input)	0 bar Min. for self-leveling products; 20 bar Max.
Dispensing Pressure (Output)	Max. 40 bar (observe burst pressure of static mixer)
Intrinsic Tightness	Approx. 2 bar
Product Inlet	G1/8" Whitworth pipe thread (DIN ISO 228)
Connector for Static Mixer	"S" type mixer
Connector for Pressure Sensor	M4 both sides
Stator Material	Perfluoro elastomer (FFKM)
Storage Temperature	+10°C to +40°C (+50°F to +104°F), dry and dust-free
Operating Temperature	+10°C to +40°C (+50°F to +104°F)
Weight	Approx. 1.7 kg
Accessories	1528963 - Pressure Sensor for MM25 Dual Rotor Pump 2172161 - Extension Cable for Pressure Sensor 1528963 1759900 - Pump Mount Bracket for Dual Rotor Pump 4.0
Spare Parts	1335043 - O-Ring Repair Kit; 1335041 - Stator with housing; 1335000 - Sealing set with housing

LOCTITE® Dual Rotor Pump Controller

Item Number: 1533495

Features:

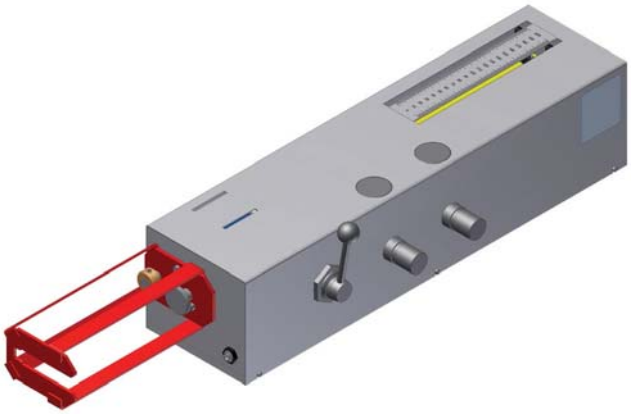
- Provides a wide range of options for adjusting the desired quantity of product to be dispensed.
- All production data can be stored on an SD card and retrieved at any time.
- A graphical user interface is provided for intuitive operator interaction.
- For inline manufacturing, status messages (ready, empty, fault) can be analyzed by a higher ranking controller.

TECHNICAL SPECIFICATIONS	
Power Supply (wall power supply included)	100-240 VAC, 47-63 Hz
Power Supply Controller	24 VDC
Power Consumption	100 VA
Dispense Start	Pushbutton, foot switch, 24 V signal
Operating Modes	Timed dispense program, quantity, start-stop
Interface	RS232 / USB
Operating Pressure Control	0 to 7 bar (optional sensor required)
Dispensing Pressure Control	0 to 40 bar Max. (optional sensor required)
Data Analysis	Dispensing pressure curve graphically displayed, maximum pressure alert by controller
External Memory Card	MM C/SD-Card, Min. 64 MB Max. 24 dispense programs
Storage and Operating Temperature	+10°C to +40°C (+50°F to +104°F), dry and dust-free
Dimensions	240 mm W x approx. 115 mm H x 260 mm D
Weight	Approx. 1.3 kg
Accessories	1963312 - Dual Rotor Cable Kit

LOCTITE® MM31 Dual Cartridge Pusher

Item Number: 1845696

Cartridge reservoir for dual rotor pump with independent pressure control for A and B components.



TECHNICAL SPECIFICATIONS	
Package Sizes	400 ml dual cartridges
Air Quality	Filtered 10 µm, oil-free, non-condensing
Pressure Input Limit (maximum feed pressure)	Max. 6 bar (87 psi). Make sure that the limit is kept.
Dimensions	810 mm H x 210 mm W x 170 mm D (~32 x 8.3 x 6.7 inch)
Pneumatic Hose	OD 6 mm $^{+0.5\ mm}_{-0.1\ mm^2}$ ID 4 mm
Operating Temperature	+5°C... + 40°C (+ 60°F... + 86°F)
Storage Temperature	–10°C... + 70°C (– 4°F... + 160°F)
Weight	~ 12.5 kg
Accessories	1769736 – Fluid Kit for 2:1 Dual F Cartridges – MM31 Cartridge Pusher to MM25 Dual Rotor Pump 1817687 – Fluid Kit for 10:1 Dual F Cartridges – MM31 Cartridge Pusher to MM25 Dual Rotor Pump 1817688 – Fluid Kit for 10:1 Dual F Cartridges – MM31 Cartridge Pusher to MM25 Dual Rotor Pump 1693153 – Fluid Kit for 2:1 Dual F Cartridges – MM31 Cartridge Pusher to MM25 Dual Rotor Pump 1728001 – Fluid Kit for 2:1 Dual Q Cartridges – MM31 Cartridge Pusher to MM25 Dual Rotor Pump

TWO-COMPONENT DISPENSING – AUTOMATIC DUAL CARTRIDGE

LOCTITE® EQ MM10 50 ml Dual Cartridge Dispenser, for 4:1, 10:1 ratio, B-style mix nozzles

Item Number: 1633366

LOCTITE® EQ MM10 50 ml Dual Cartridge Dispenser, for 1:1, 2:1 ratio, A-style mix nozzles

Item Number: 1633364

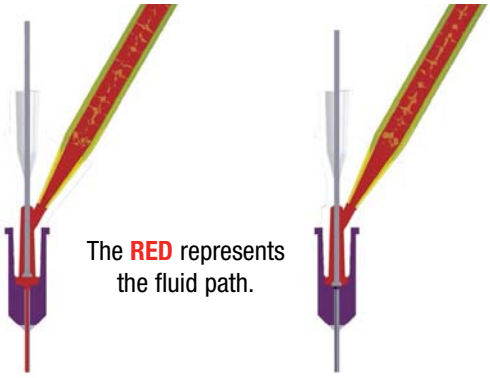
LOCTITE® EQ MM10 50 ml Dual Cartridge Dispenser, for 1:1, 2:1 ratio, B-style mix nozzles

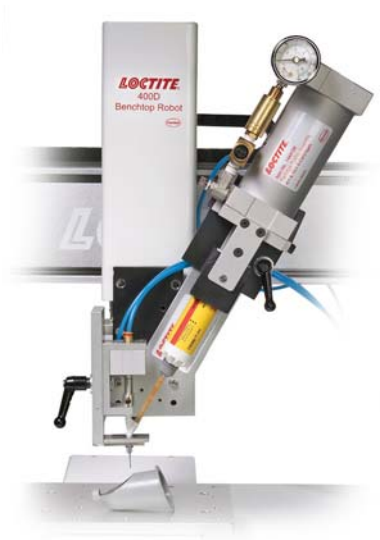
Item Number: 1633365

The LOCTITE® 50 ml Dual Cartridge Dispenser, when used in conjunction with any LOCTITE Adhesive Dispensing Robot (sold separately) system, provides a total processing solution for applying small beads or drops. The dispenser also includes a unique, patented anti-drip valve. This disposable valve connects to the end of the mix nozzle and provides shutoff directly at the dispense tip, allowing immediate and crisp fluid on/off control. The dispenser mounts easily to the robot and can be programmed for any 3-axis application. It can also be used as a stationary dispenser with the use of a LOCTITE Single Function Controller (item 97101).

Features:

- Independent cartridge pressure and actuation controls to fine-tune adhesive flow rate.
- Lightweight design; able to be used on any LOCTITE Adhesive Dispensing Robot or as a stationary applicator.
- Dispenses adhesives up to 200,000 cP viscosities.
- Includes Dispense Needle Holder to ensure repeatable needle positioning shot after shot.
- All pneumatic operation.





TECHNICAL SPECIFICATIONS		
Dimensions	11" L x 14.8" H x 4.6" W	
Weight	5.3 lbs.	
Pneumatic Air Supply	40 to 80 psi	
Used to Dispense	All dual component adhesive products in 50 ml dual cartridges	
Package Types and Sizes	**1633366**	4:1, 10:1 B Style 50 ml Dual Cartridges
	1633364	1:1, 2:1 A style 50 ml Dual Cartridges
	1633365	1:1, 2:1 B style 50 ml Dual Cartridges
Parts Included	(1) 50 ml Pneumatic Dispenser (1) Manual (1) Needle Holder 23-27 Gauge (1) Mounting Hardware to Robot	
Required Accessories		
1444139 (500 pack) / 1445944 (100 pack) – Anti-drip Valve	1334299 (100 pack) – Mix Nozzles for 1:1, 2:1, A-style	
1440017 (100 pack) – Mix Nozzles for 1:1, 2:1, B-style	1329200 (100 pack) – Mix Nozzles for 4:1, 10:1, B-style	

*See ½", 1" or 1½" Stainless Steel Dispensing Needles on pages 64-65.

Handheld Applicators

LOCTITE® brand handheld applicators are ergonomically designed for the hand delivery of adhesives and fluids directly from their original package. Whether pneumatic or manual, each item is designed for the simple, clean, handheld dispensing of fluids, and to reduce waste and operator contact. Selection of a LOCTITE brand handheld applicator is based on product type, package configuration and process requirements.

PRODUCT		Item Numbers	Used to Dispense	Package Types & Sizes	Viscosity Range	Type
Bottle Dispensing – *The most popular handheld bottle top dispensers for LOCTITE brand threadlockers and other adhesive products.*						
	LOCTITE 50 ml / 250 ml Hand Pumps	98414 97001	Retaining Compounds, Threadlockers	50 ml bottle 250 ml bottle	Low to Medium	Manual
	LOCTITE Soft Squeeze Bottles	98345 98346 98347	Cyanoacrylates	98345 - 2 oz. (50 pack) 98346 - 4 oz. (50 pack) 98347 - 8 oz. (50 pack)	Low to Medium	Manual
Syringe Dispensing – *Simple manual dispensers for low volume syringe applications.*						
	LOCTITE 10 ml Gel CA Syringe Dispenser	1233800	Any product package in a standard 10 ml syringe	10 ml syringe	Low to High	Manual
	LOCTITE 30 ml Manual Syringe Applicator	1544934	Any fluid in a 30 ml syringe, including 25 ml syringes	30 ml syringe	Low to High	Manual
	LOCTITE 10 / 30 ml Syringe Manual Plungers	98192 98193	Any fluid in a 10 ml syringe Any fluid in a 30 ml syringe	10 ml syringe (3 pack) 30 ml syringe (3 pack)	Low to High	Manual
Tube Dispensing – *Easy but effective tube dispensing.*						
	LOCTITE 50 ml F Tube Squeeze Dispenser	1083845	Any 50 ml tube	50 ml tubes	Low to High	Manual
Two-Part Dispensing – *Simple and effective two-part dispensers to meet your lower precision dual cartridge application needs.*						
	LOCTITE 50 ml Dual Cartridge Manual Applicators	98472 1034026	Two-Component Epoxies, Urethanes, Methacrylates	50 ml dual cartridge	Low to High	Manual
	LOCTITE 50 ml Dual Cartridge Pneumatic Applicator	97042	Two-Component Epoxies, Urethanes, Methacrylates	50 ml dual cartridge	Low to High	Pneumatic
	LOCTITE 50 ml S-Style Dual Cartridge Pneumatic Applicator	1493310	Two-Component Epoxies, Urethanes, Methacrylates, 10:1 ratio	50 ml dual cartridge	Low to High	Pneumatic
	LOCTITE 200 ml / 400 ml Dual Cartridge Manual Applicators	983436 983438 985246	Two-Component Epoxies, Urethanes, Methacrylates	200 ml dual cartridge 400 ml dual cartridge 490 ml dual cartridge	High to Paste	Manual
	LOCTITE 200 ml / 400 ml Dual Cartridge Pneumatic Applicators	983437 983439 985249	Two-Component Epoxies, Urethanes, Methacrylates	200 ml dual cartridge 400 ml dual cartridge 490 ml dual cartridge	High to Paste	Pneumatic
	LOCTITE 400 ml Dual Cartridge Pneumatic Applicator	1500890	Two-Component Epoxies, Urethanes, Methacrylates	400 ml dual cartridge	High	Pneumatic
	LOCTITE Fixmaster® Universal Dispenser	1372751	Two-Component Epoxies, Urethanes, Methacrylates	200 ml and 400 ml dual cartridges	High to Paste	Manual
	LOCTITE Manual Cartridge Applicator 300 ml	1093940	Henkel Construction Adhesives, Caulking products in 10 oz. caulking tubes	300 ml cartridges	Medium to High	Manual
	LOCTITE Dual Cartridge Manual Applicator 300 ml x 300 ml	1093981	Henkel Construction Adhesives, 2-Part Epoxy Adhesives	300 ml dual cartridges	Medium to High	Manual

BOTTLE DISPENSING

LOCTITE® 50 ml / 250 ml Hand Pumps

Item Numbers: 97001 and 98414

Portable, precision, bottle-top applicators that thread directly onto any 50 ml or 250 ml bottle of anaerobic product.

Features:

- Adjustable positive displacement, 0.01 ml to 0.04 ml of product.
- Allows user to control amount and positioning of the adhesive.
- Converts product package into a portable dispenser.
- Applicator nozzle accepts a variety of dispensing needles.
- Bottle stand greatly improves 50 ml bottle stability.

TECHNICAL SPECIFICATIONS		
Compatibility	LOCTITE brand 50 ml or 250 ml anaerobic product bottles	
Product Viscosity	Low to Medium	
Dimensions (97001)	4" H x 5.75" W x 1.5" Diameter – Pump	
Dimensions (98414)	4" H x 5.75" W x 1.5" Diameter – Pump 4.5" H x 3.75" W x 2.25" Diameter – Stand	
Used to Dispense	Low Viscosity Thread Sealants, Retaining Compounds and Threadlockers	
Parts Included	98414: (1) 50 ml Hand Pump and Stand (1) Needle Kit (1) Manual	97001: (1) 250 ml Hand Pump (1) Needle Kit (1) Manual
Additional Information	For Dispense Tips, see pages 64-65.	

LOCTITE® Soft Squeeze Bottles

Item Numbers: See chart

LOCTITE® Soft Squeeze Dispense Bottles are intended for use by customers who wish to download LOCTITE brand cyanoacrylate adhesives from large containers to smaller, handheld packages. These soft, thin-walled polyethylene bottles are ideal for use at manual workstations. A variety of bottle sizes and cap styles are available. Bottles, caps, and dispense tips are sold separately.

TECHNICAL SPECIFICATIONS	
Product Viscosity	Low to Medium
Dimensions	98345 – 3.3" H x 1.5" Diameter
	98346 – 4.3" H x 1.9" Diameter
	98347 – 5.4" H x 2.4" Diameter
Used to Dispense	Cyanoacrylate Adhesives

PRODUCT	Item Number	Description
	98345	2 oz. Soft Squeeze Bottle (50 pack)
	98346	4 oz. Soft Squeeze Bottle (50 pack)
	98347	8 oz. Soft Squeeze Bottle (50 pack)
	98348	Dunce Cap with red sealer cap for 2 oz. bottle (50 pack)
	98349	Dunce Cap with red sealer cap for 4 oz. and 8 oz. bottles (50 pack)
	98350	Luer-Slip Cap for 2 oz. bottle (50 pack)
	98351	Luer-Slip Cap for 4 oz. and 8 oz. bottles (50 pack)

LOCTITE® 10 ml Gel CA Syringe Dispenser

Item Numbers: 1233800

The 10 ml Gel CA Syringe Dispenser is a handheld, manually operated dispenser for any product packaged in 10 ml syringes. This dispenser provides a convenient, cost-effective method to apply product.

TECHNICAL SPECIFICATIONS	
Used to Dispense	Any product package in a standard 10 ml syringe
Package Types & Sizes	10 ml syringes
Viscosity Range	Low to High
Additional Information	For Syringe Accessories, see pages 69-70.

Features:

- Pistol configuration for ease of application.
- Easy syringe loading.
- Smooth dispensing.
- Lightweight – only 120 g.

LOCTITE® 30 ml Manual Syringe Applicator

Item Number: 1544934

Top-choice, handheld, manually operated dispenser.

TECHNICAL SPECIFICATIONS	
Used to Dispense	Any fluid in a 30 ml syringe, including 25 ml net fill syringes
Package Types & Sizes	30 ml syringes
Viscosity Range	Low to High
Parts Included	(1) 30 ml Manual Syringe Applicator (1) Manual (1) Plunger
Additional Information	For Dispense Tips, see pages 64-65.

Features:

- Pistol configuration for ease of application.
- Full-hand trigger minimizes operator fatigue.
- Easy syringe loading.
- Smooth dispensing.

LOCTITE® 10 ml / 30 ml Tube Dispensing Manual Plungers

Item Numbers: 98192 and 98193

Economical/reusable manual plungers.

TECHNICAL SPECIFICATIONS	
Used to Dispense	All approved 10 ml and 30 ml syringes, including pre-packaged syringes with a 25 ml fill
Package Types & Sizes	10 ml and 30 ml syringes
Viscosity Range	Low to High
Additional Information	For Syringe Accessories, see pages 69-70.

LOCTITE® 50 ml F Tube Squeeze Dispenser

Item Number: 1083845

Top choice for dispensing all LOCTITE products in 50 ml tubes.

TECHNICAL SPECIFICATIONS	
Used to Dispense	Any LOCTITE product in 50 ml tube
Package Types & Sizes	50 ml tubes
Viscosity Range	Low to High
Parts Included	(1) 50 ml F Tube Squeeze Dispenser (1) Plunger (1) Nozzle Adapter

Features:

- Effective bed dispensing.
- Virtually no product left in tube when empty.

TWO-PART DISPENSING

LOCTITE® 50 ml Dual Cartridge Manual Applicators

Item Numbers: 98472 and 1034026

Cost-effective applicators to apply two-part products in 50 ml cartridges.

Item 98472

Item 1034026

TECHNICAL SPECIFICATIONS		
Item Number	**98472**	**1034026**
Used to Dispense	Two-Component Epoxies, Urethanes, Methacrylates	
Package Types & Sizes	50 ml dual manual cartridge	S-50 cartridge
Viscosity Range	Low to High	
Mix Ratios	1:1 / 2:1 / 4:1 / 10:1	10:1
Parts Included	(1) 50 ml Dual Cartridge Manual Applicator (1) 1:1 Plunger (1) 2:1 Plunger (1) Manual	(1) 50 ml, 10:1-S Cartridge Manual Applicator (1) 10:1-S Plunger
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.	
Additional Accessories Sold Separately	984209: 4:1 Plunger 986086: 10:1 Plunger	*1 Mix Nozzle available* 1034575: 10:1-S Mix Nozzle
Replacement Plungers	983533: 1:1 Ratio 983534: 2:1 Ratio	1034024: 10:1 Ratio

LOCTITE® 50 ml Dual Cartridge Pneumatic Applicator

Item Number: 97042 and 1493310

Pneumatic solution for higher viscosity products.

Features:

- Lightweight, well-balanced design for easy use.
- Versatile cartridge holder accepts dual 50 ml cartridges with 1:1, 2:1 and 10:1 ratios.

Item 97042

Item 1493310

TECHNICAL SPECIFICATIONS		
Item Number	**97042**	**1493310**
Mix Ratios	1:1 / 2:1	10:1 (B-style only)
Dimensions	14.0" L x 7.6" H x 2.4" D	9.5" L x 9" H x 2.75" D
Weight	1.6 lbs.	1.75 lbs.
Air Supply	30 to 75 psi	20 to 80 psi
Air Supply Fitting	¼" NPT male	¼" to 6 mm tube
Used to Dispense	Two-Component Epoxies, Urethanes, Methacrylates	
Package Types & Sizes	50 ml dual cartridge	
Parts Included	(1) 50 ml Dual Cartridge Pneumatic Applicator (1) Manual	
Viscosity Range	Low to High	
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.	

LOCTITE® 200 ml / 400 ml Dual Cartridge Manual Applicators

Item Numbers: 983436, 983438 and 985246

Cost-effective choice for applying products in 200/400 ml cartridges.

TECHNICAL SPECIFICATIONS			
Item Number	**983436**	**983438**	**985246**
Viscosity Range	High to Paste		
Mix Ratios	1:1 / 2:1	1:1 / 2:1	10:1
Used to Dispense	Two-Component Epoxies, Urethanes, Methacrylates		
Package Types & Sizes	200 ml dual cartridge	400 ml dual cartridge	490 ml dual cartridge
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.		
Additional Accessories Sold Separately			
984211 – LOCTITE 4:1 Conversion Kit			

LOCTITE® 200 ml / 400 ml Dual Cartridge Pneumatic Applicators

Item Numbers: 983437, 983439 and 985249

Pneumatic solution for higher viscosity products.

TECHNICAL SPECIFICATIONS			
Item Number	**983437**	**983439**	**985249**
Air Pressure Supply	125 psi (8.5 bar) maximum		
Viscosity Range	High to Paste		
Mix Ratios	1:1 / 2:1	1:1 / 2:1	10:1
Adhesive Components	2	2	2
Used to Dispense	Two-Component Epoxies, Urethanes, Methacrylates		
Package Types & Sizes	200 ml dual cartridge	400 ml dual cartridge	490 ml dual cartridge
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.		
Additional Accessories Sold Separately			
984210 – LOCTITE 4:1 Conversion Kit			

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® 400 ml Dual Cartridge Pneumatic Applicator

Item Number: 1500890

Pneumatic solution for high viscosity products that require a 0-100 psi range capabilities.

TECHNICAL SPECIFICATIONS	
Air Pressure Supply	125 psi (8.5 bar) maximum
Viscosity Range	High
Mix Ratios	1:1 / 2:1
Adhesive Components	2
Used to Dispense	Two-Component Epoxies, Urethanes, Methacrylates
Package Types & Sizes	400 ml dual cartridge
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.

LOCTITE® Fixmaster® Universal Dispenser

Item Number: 1372751

Top-choice, handheld, manually operated dispenser designed for use with two-part adhesives packaged in 200 ml and 400 ml dual cartridges.

TECHNICAL SPECIFICATIONS	
Viscosity Range	High to Paste
Mix Ratios	1:1 / 2:1 / 4:1 / 10:1
Adhesive Components	2
Used to Dispense	Two-Component Epoxies, Urethanes, Methacrylates
Package Types & Sizes	200 ml and 400 ml dual cartridges
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.

LOCTITE® Dual Cartridge Manual Applicator 300 ml x 300 ml

Item Number: 1093981

Designed for use with epoxies and sealants packaged in dual 300 ml by 300 ml cartridges. Easily converts to accept 300 ml by 150 ml dual cartridges by changing disk plates. The mechanical advantage of a 26:1 thrust ratio allows for easy application of medium- to high-viscosity material.

TECHNICAL SPECIFICATIONS	
Mix Ratios	1:1 / 2:1
Dimensions	14.25" L x 4.5" W
Handle Length	5"
Weight	4.25 lbs.
Used to Dispense	Henkel Construction Adhesives, 2-Part Epoxy Adhesives
Additional Information	For Static Mix Nozzles & Accessories, see pages 66-68.

Handheld Hot Melt Dispensers

LOCTITE® handheld hot melt applicators are state-of-the-art dispensing units designed for the application of hot melt adhesives. The model selected should be based on the type of hot melt being used, stick diameter and process requirements.

PRODUCT		Item Number	Stick Diameter	Dispense Melt Rate	Dispense Power	Dispense Temperature	Hot Melt Chemistry
½ Inch Superstick Dispensers							
	LOCTITE 050A Hot Melt Dispenser	916282	½" Superstick Sticks	4 lbs./hour	Manual	195°C	EVA/Polyolefin
	LOCTITE 050A-HT Hot Melt Dispenser	1597635	½" Superstick Sticks	4 lbs./hour	Manual	215°C	Polyamide
¾ Inch Maxistick Dispensers							
	LOCTITE 075 Hot Melt Dispenser	98033	¾" Maxistick Sticks	9 lbs./hour	Manual	182°C	EVA
	LOCTITE 075-LT Hot Melt Dispenser	98034		5 lbs./hour		121°C	CoolMelt™
1¾ Inch SprayPac™ and Polyshot Dispensers							
	LOCTITE 175-AIR Pneumatic Dispenser	98036	1¾" Polyshot Sticks	8 lbs./hour	Electric	195°C	EVA/Polyolefin
	LOCTITE 175-AIR-HT Pneumatic Dispenser	98040				215°C	
	LOCTITE 175-SPRAY Pneumatic Dispenser	98037	1¾" SprayPac™ Sticks	8 lbs./hour	Electric	195°C	Polyamide
	LOCTITE 175-SPRAY-HT Pneumatic Dispenser	98041				215°C	
	LOCTITE EQ HM22 Manual Dispenser	2040430	1¾" Polyshot Sticks	6.6 lbs./hour	Manual	160°C, 195°C or 215°C**	EVA/Polyolefin and Polyamide
Urethane Dispenser							
	LOCTITE EQ HM18 Reactive Urethane Cartridge Dispenser	2011543	N/A	3 lbs./hour	Air	121°C	Reactive Urethane

** The LOCTITE EQ HM22 Manual Dispenser is supplied with these three temperature modules.

½ INCH SUPERSTICK DISPENSERS

LOCTITE® 050A / 050A-HT HOT MELT DISPENSERS

Item Numbers: 916282 and 1597635

Dispenses LOCTITE industrial grade ½ in. stick.

Features:

- Lightweight and well-balanced, with ergonomically designed easy pull triggers for operator comfort and application control.
- Fixed precision thermostat temperature control for consistent heating.

Item 916282 –
For EVA and Polyolefins

Item 1597635 –
For Polyamide

TECHNICAL SPECIFICATIONS			
PRODUCT		LOCTITE 050A	LOCTITE 050A-HT
Item Number		916282	1597635
Required Utilities	*Voltage*	120 VAC; 60 Hz; single phase	
	Power	250 watts	
Nominal Stick Diameter		½" Superstick	
Size		2.0" W x 12.0" L x 6.5" H	3.0" W x 9.5" L x 8.5" H
Weight		1.25 lbs.	2.2 lbs.
Dispense Power		Manual	
Power Cord Length		6.0 ft. (72")	
Warm-Up Time		3 to 5 minutes	4 to 5 minutes
Dispense Melt Rate		4 lbs./hour	4.4 lbs./hour
Dispense Temperature		193°C	215°C
Hot Melt Chemistry		EVA and Polyolefin hot melts	Polyamide hot melts
Parts Included		(1) 050, 050-HT or 050A Hot Melt Applicator (1) Manual (1) Standard Nozzle (1) Plastic Stand	
Additional Information		For Hot Melt Nozzles & Accessories, see page 40.	

¾ INCH MAXISTICK DISPENSERS

LOCTITE® 075 / 075-LT HOT MELT DISPENSERS

Item Numbers: 98033 and 98034

Dispenses LOCTITE industrial grade ¾ in. stick.

Features:

- Lightweight, well-balanced, and ergonomically designed for operator comfort and application control.
- Full-hand trigger for minimized operator fatigue.
- Completely enclosed heater housing for maximum safety.
- Fast heat up time for virtually immediate use.
- Highest-output handheld dispenser in its class.
- Fixed precision thermostat temperature control for consistent heating.
- Thermal fuse protection for additional safety.
- Multiple stick loading with a detachable top-mounted speed loader (included).

TECHNICAL SPECIFICATIONS			
PRODUCT		LOCTITE 075	LOCTITE 075-LT
Item Numbers		98033	98034
Required Utilities	*Voltage*	120 VAC; 60 Hz; 120V; 3.3 amp single phase	
	Power	400 watts	
Nominal Stick Diameter		¾" Maxistick	
Size		1.94" W x 12.5" L x 8.25" H	
Weight		1.9 lbs.	
Power Cord Length		6.5 ft. (78")	
Maximum Extension Cord		65 ft.	
Warm-Up Time		5 minutes	
Dispense Power		Manual	
Dispense Melt Rate		9 lbs./hour	5 lbs./hour
Dispense Temperature		182°C	121°C
Applicator Adhesive Capacity		0.12 lbs.	
Wire Cross-Section		16 a.w.g. minimum	
Hot Melt Chemistry		EVA hot melt sticks	LOCTITE Hysol® CoolMelt™ EVA hot melt sticks
Parts Included		(1) 075 or 075-LT Applicator (1) Plastic Dispenser Stand (2) Stand-Off Wings	(1) Speed Loader (1) Standard Nozzle (1) Manual
Additional Information		For Hot Melt Nozzles & Accessories, see page 40.	

1¾ INCH SPRAYPAC™ & POLYSHOT DISPENSERS

LOCTITE® 175-AIR / 175-AIR-HT PNEUMATIC DISPENSERS

Item Numbers: 98036 and 98040

Industrial grade, handheld pneumatic hot melt applicator used for dispensing 1.75 in. diameter EVA and polyamide sticks. The operating temperature of the unit is set at 195°C. The dispense rate is controlled by the air pressure and the timing is controlled by the trigger mechanism.

Features:

- Pneumatically powered actuation to reduce operator fatigue.
- High melt rate for maximum output.

TECHNICAL SPECIFICATIONS			
PRODUCT		**LOCTITE 175-AIR**	**LOCTITE 175-AIR-HT**
Item Numbers		**98036**	**98040**
Required Utilities	*Voltage*	110/120 VAC; 50/60 Hz	
	Power	500 watts	
	Air Input	45 to 100 psi	
Nominal Stick Diameter		1¾" Polyshot	
Size		2.6" W x 12.1" L x 9.5" H	
Weight		3.89 lbs.	
Power Cord Length		10 ft. (120")	
Maximum Extension Cord		65 ft.	
Warm-Up Time		10 minutes	
Dispense Power		Electric	
Dispense Melt Rate		8.8 lbs./hour	
Dispense Temperature		195°C	215°C
Applicator Adhesive Capacity		0.125 lbs.	
Wire Cross-Section		16 a.w.g. minimum	
Hot Melt Chemistry		EVA hot melt sticks	Polyamide hot melts sticks
Parts Included		(1) 175-AIR or 175-AIR-HT Applicator (1) Plastic Stand (1) Valve Body Air Line Adapter (1) Standard Nozzle (1) Manual	
Additional Information		For Hot Melt Nozzles & Accessories, see page 40.	
Additional Accessories Sold Separately			
985397 – LOCTITE Air Line Filter, Regulator/Gauge			

LOCTITE® 175-SPRAY / 175-SPRAY-HT PNEUMATIC DISPENSERS

Item Numbers: 98037 and 98041

Industrial grade, handheld pneumatic hot melt applicator used for dispensing 1.75 in. diameter spray EVA and polyamide sticks. An adjustable air pressure control can vary the spray pattern from narrow to a wide spiral spray.

Features:

- Adjustable flow control for tailoring the spray pattern.
- Innovative technology for small or large spray pattern.
- Automatic end-of-cycle purge to prevent nozzle clogging.
- Pneumatically powered actuation to reduce operator fatigue.
- High melt rate for maximum output.

TECHNICAL SPECIFICATIONS			
PRODUCT		**LOCTITE 175-SPRAY**	**LOCTITE 175-SPRAY-HT**
Item Numbers		**98037**	**98041**
Required Utilities	*Voltage*	110/120 VA; 50/60 Hz	
	Power	500 watts	
	Air Input	45 to 100 psi	
Spray Pattern		Ultra-wide spray nozzle: 1.5" minimum / 6" maximum	
		Standard medium spray nozzle: 1.25" minimum / 5" maximum	
		Narrow spray nozzle: 0.5" minimum / 1.25" maximum	
Nominal Stick Diameter		1¾" SprayPac™ Sticks	
Size		2.6" W x 12.1" L x 9.5" H	
Weight		4 lbs.	
Power Cord Length		10 ft. (120")	
Maximum Extension Cord		65 ft.	
Warm-Up Time		10 minutes	
Dispense Power		Electric	
Dispense Melt Rate		8 lbs./hour	
Dispense Temperature		195°C	215°C
Applicator Adhesive Capacity		0.125 lbs.	
Wire Cross Section		16 a.w.g. minimum	
Hot Melt Chemistry		EVA spray hot melt sticks	Polyamide spray hot melt sticks
Parts Included		(1) 175-SPRAY or 175-SPRAY-HT Applicator (1) Plastic Stand (1) Valve Body Air Line Adapter (1) Manual (1) Standard Wide Spray Nozzle	
Additional Information		For Hot Melt Nozzles & Accessories, see page 40.	
Additional Accessories Sold Separately			
985397 – LOCTITE Air Line Filter, Regulator/Gauge			

1¾ INCH SPRAYPAC™ & POLYSHOT DISPENSERS

LOCTITE® EQ HM22 Manual Dispenser

Item Number: 2040430

Industrial grade, handheld hot melt applicator used for dispensing 1.75 in. diameter without pneumatic assist. The unit includes a plug-in thermostat at 160°C and 195°C for EVA hot melts and a plug-in thermostat at 215°C for polyamide hot melts.

Features:

- Includes two plug-in modules for dispensing both polyamide and EVA hot melts.
- Advanced electronic controller provides power saving mode when not in use for long periods of time.

TECHNICAL SPECIFICATIONS		
Required Utilities	*Voltage*	110/120 VAC; 50/60 Hz
	Power	400 watts
Nominal Stick Diameter		1.75" Polyshot Sticks
Size		2.67" W x 12.25" L x 9.63" H
Weight		2.5 lbs.
Power Cord Length		10 ft. (120")
Maximum Extension Cord		65 ft.
Warm-Up Time		5 to 7 minutes
Dispense Power		Manual
Dispense Melt Rate		8 lbs./hour
Dispense Temperature		160°C, 195°C or 215°C
Applicator Adhesive Capacity		0.125 lbs.
Wire Cross Section		16 a.w.g. minimum
Hot Melt Chemistry		EVA and polyamide hot melt sticks
Parts Included		(1) 175 Applicator (1) Plastic Stand (1) Plug-In Module (195°C) (1) Plug-In Module (215°C) (1) Standard Nozzle (1) Manual
Additional Information		For Hot Melt Nozzles & Accessories, see page 40.

URETHANE DISPENSER

LOCTITE® EQ HM18 Reactive Urethane Cartridge Dispenser

Item Number: 2011543

The 2011543 handheld dispensing gun for 300 ml cartridges is used to manually dispense dots or beads of reactive polyurethane hot melts. The system includes a pressure-regulating stand with optional vertical application stand and foot switch for hands-free application.

Features:

- Rugged molded thermoset plastic housing for “cool-to-the-touch” operation up to 121°C.
- Fixed precision temperature: 121°C.
- Single cartridge loading.
- Direct nozzle cartridge mounting for quick cartridge changeover.

TECHNICAL SPECIFICATIONS		
Required Utilities	*Voltage*	120 VAC; 60 Hz; single phase
	Power	400 watts
	Air Input	80 psi air, filtered to 40 micron
Size		3.1" W x 12.5" L x 10.3" H
Weight		6.5 lbs.
Adhesive		Dispenses 300 cc aluminum cartridge
Air Output		Maximum 90 psi
Warm-Up Time		3 to 10 minutes
Dispense Power		Air
Dispense Melt Rate		3.5 lbs./hour
Dispense Temperature		250°F (121°C)
Applicator Adhesive Capacity		0.125 lbs.
Hot Melt Chemistry		LOCTITE Hysol® reactive urethane hot melts
Parts Included		(1) Reactive Urethane Cartridge Dispenser (1) Base with Regulator and Gauge (1) 300 cc Cartridge Adapter (1) Tubing Assembly (1) Wire Stand (1) Nozzle with Cap (1) Manual
Additional Information		For Hot Melt Nozzles & Accessories, see page 40.

LOCTITE® Brand Hot Melt Nozzles & Accessories

PRODUCT	Item Number	Description	Used With
	1611450	Replacement Nozzle/Check Valve	1597635
	2049852	EQ HM22 Standard Nozzle (5 pack)	2040430
	2049853	EQ HM22 Nozzle/Adapter Assembly	2040430
	2049855	EQ HM22 Nozzle Adapter	2040430
	419115 *(SINGLE PACK)*	Adapter/Check Valves for Nozzles	**98035, 98036, 98040, 2040430**
	985225	1-Hole Nozzle 0.08" diameter cone tip (5 pack)	98033, 98034, 98035, 98036, 98040, 2040430
	985110	2-Hole Nozzle 0.06" diameter x 0.39" spacing	98033, 98034, 98035, 98036, 98040, 98544, 98545, 2040430
	985111	3-Hole Nozzle 0.06" diameter x 0.20" spacing	98033, 98034, 98035, 98036, 98040, 98544, 98545, 2040430
	985112	Diagonal Extension Nozzle Tip = 0.14" diameter x 1.23" long	98033, 98034, 98035, 98036, 98040, 98544, 98545, 2040430
	985113	Needle Extension Nozzle Tip = 0.05" diameter x 1.32" long	98033, 98034, 98035, 98036, 98040, 98544, 98545, 2040430
	985114	Spreader Extension Nozzle Tip = (0.09" x 0.25") x 1.32" long	98033, 98034, 98035, 98036, 98040, 98544, 98545, 2040430
	985115	L-Nozzle 0.06" diameter x 0.85" offset	98033, 98034, 98035, 98036, 98040, 98544, 98545, 2040430
	985122	Standard Medium Spray Nozzle 1.25" to 5" diameter pattern	98037, 98041
	985211	Narrow Spray Nozzle 0.05" to 1.25" diameter pattern	98037, 98041
	985216	Ultra-Wide Spray Nozzle 1.5" to 6.0" diameter pattern	98037, 98041
	984261	Standard Adapter for 300 ml Cartridges	98011, 2011543
	984262	Standard 1-Hole Nozzle 0.098" diameter cone tip, with integral check valve (includes protective cap)	98011, 2011543
	984263	Adapter/Check Valve for Specialty Nozzles	98011, 2011543
	984264	Needle Jet Nozzle Tip = 0.051" diameter x 1.26" long (requires 984263 adapter)	98011, 2011543
	984268	3-Hole Nozzle 0.06" diameter x 0.20" spacing (requires 984263 adapter)	98011, 2011543
	984272	Injection Needle Nozzle with Integral Check Valve Tip = 0.059" diameter x 0.197" long	98011, 2011543
	985397	Air Line Filter, Regulator, 5 Micron Filter Gauge 0 to 150 psi	All Pneumatic Applicators

For additional information and the full line of equipment, visit **equipment.loctite.com.**

Handheld Valves

LOCTITE® brand handheld dispensing valves are used where ergonomic design for hand dispensing of fluids is desired. Designed for use with LOCTITE brand controllers and reservoirs, these handheld valves use passive wetted components for universal compatibility with many fluids. Selection of a LOCTITE brand handheld valve is based on the desired dispensing controls, the dispense principle of the delivery system and other process requirements.

PRODUCT		Item Number	Type	Viscosity Range	Dispense Patterns	Used to Dispense	Stroke Adjustment	Actuation
Low Viscosity Cyanoacrylate Applicator								
	LOCTITE LV Handheld Applicator	97130	Pneumatic	Low	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Foot
General-Purpose Applicators								
	LOCTITE Manual Handheld Applicator	97111	Manual	Low to Medium	Drop, Dot, Bead	Light Cure Acrylics, Retaining Compounds, Threadlockers	Yes	Finger
	LOCTITE Pneumatic Handheld Applicator	97112	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure Acrylics, Retaining Compounds, Threadlockers	Yes	Foot
	LOCTITE Pneumatic Handheld Applicator	97116	Pneumatic	Low to Medium	Drop, Dot, Bead	Light Cure Acrylics, Retaining Compounds, Threadlockers	Yes	Finger
Pinch Tube Applicators								
	LOCTITE Vari-Drop™ Applicator	97131 97132	Pinch Tube	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Finger

LOW VISCOSITY CYANOACRYLATE APPLICATOR

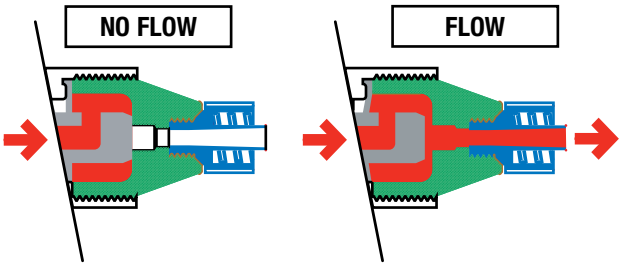
LOCTITE® LV Handheld Applicator

Item Number: 97130

Our most precise handheld applicator for cyanoacrylate adhesives. Sleek ergonomic design provides terrific operator comfort and control.

Features:

- Dispenses low viscosity cyanoacrylates, anaerobic and other adhesives under 10,000 cP.
- Slim, ergonomic design greatly reduces hand fatigue.
- Forward closing to avoid air entrapment and potential premature curing of cyanoacrylates.
- Stroke adjustment for fine-tuning of dispense characteristics.
- Dispenses repeatable drop sizes down to 0.005 g.
- Easy repair/replacement of wetted components.



The **RED** represents the fluid path.

TECHNICAL SPECIFICATIONS	
Type	Pneumatic
Viscosity Range	Low
Size	7" L x 1.6" Maximum Diameter (170 mm L x 40 mm Maximum Diameter)
Weight	5 oz. (140 g)
Maximum Cycle	2 shots per second
Port Size	Fluid Inlet – ¼" Tubing
Air Inlet	5/32" Tubing
Fluid Pressure	4 to 30 psi (0.25 to 2 bar)
Pneumatic Supply	Minimum: 60 psi (4.8 bar) / Maximum: 100 psi (7 bar)
Dispense Patterns	Drop, Dot, Bead
Used to Dispense	Instant Adhesives, Retaining Compounds, Threadlockers
Stroke Adjustment	Yes
Actuation	Foot
Parts Included	(1) 2 m Product Feed Line, PTFE-lined, ¼" OD (1) LV Handheld Applicator (1) 2 m Pneumatic Tubing (1) Needle Variety Kit (1) Silicone Grease (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see page 46.

Additional Accessories Sold Separately

98501 – LOCTITE Applicator Holder

97101 – LOCTITE Digital Dispense Controller

1174337 – LOCTITE Micro Dispense Scale

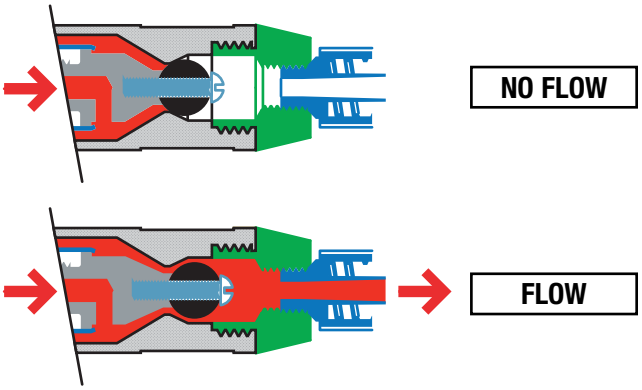
1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensor

982720 / 982723 / 982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs

LOCTITE® Manual Handheld Applicator

Item Number: 97111

Our versatile yet cost-effective pressure time dispense valve with fingertip dispense activation control.



The **RED** represents the fluid path.

TECHNICAL SPECIFICATIONS	
Type	Manual
Viscosity Range	Low to Medium
Size	1.12" D x 5.2" L x 2.74" W
Weight	3.5 oz. (99.2 g)
Air Input	60 psi minimum
Product Inlet	¼"
Wetted Components	Acetal Copolymer, PTFE, PTFE Coated Metal
Dispense Patterns	Drop, Dot, Bead
Used to Dispense	Light Cure Acrylics, Retaining Compounds, Threadlockers
Stroke Adjustment	Yes
Actuation	Foot
Parts Included	(1) Handheld Applicator (1) Applicator Grip (1) Trigger Lever (1) Needle Kit (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see page 46. For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

98501 – LOCTITE Applicator Holder

982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs

97220 – ⅜" Feed Line Kit

GENERAL-PURPOSE APPLICATORS

LOCTITE® Pneumatic Handheld Applicator

Item Number: 97112 – Foot Switch Activated

Step up to pneumatic dispense actuation support with either foot pedal or ergonomic design trigger control.

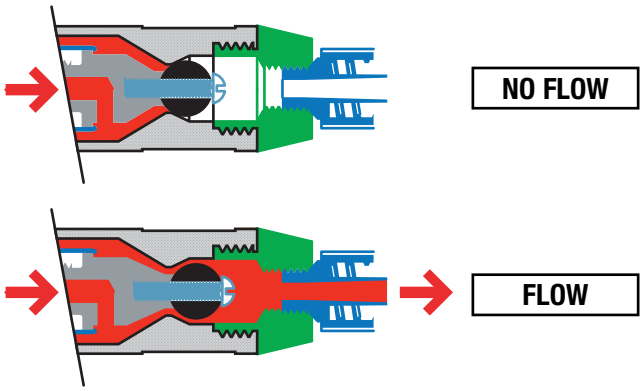
LOCTITE® Pneumatic Handheld Applicator

Item Number: 97116 – Finger Switch Activated

Step up to pneumatic dispense actuation support with either foot pedal or ergonomic design trigger control.

Features of Pneumatic Handheld Applicators:

- Suck-back feature ensures accuracy and control.
- Dispenses products up to 15,000 cP with ¼ in. feed line (standard).
- Dispenses products up to 80,000 cP with ⅜ in. feed line (optional).
- Operational with manual, semiautomatic and automatic controllers.



The **RED** represents the fluid path.

TECHNICAL SPECIFICATIONS		
Type	Pneumatic	
Viscosity Range	Low to Medium	
Size	1.12" D x 5.2" L x 2.74" W	
Weight	97112: 4.9 oz. (138.9 g)	97116: 12 oz. (340 g)
Air Input	60 psi min.	
Product Inlet	¼"	
Wetted Components	Acetal Copolymer, PTFE, PTFE Coated Metal	
Dispense Patterns	Drop, Dot, Bead	
Used to Dispense	Light Cure Acrylics, Retaining Compounds, Threadlockers	
Stroke Adjustment	No	
Actuation	97112: Foot (Foot switch is not included with valve, but is included with all controllers.)	97116: Finger (Finger switch is included.)
Parts Included	(1) Handheld Applicator (1) Needle Kit	(1) Applicator Grip (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see page 46. For Dispense Tips, see pages 64-65.	

Additional Accessories Sold Separately

98501 – LOCTITE Applicator Holder

97101 – LOCTITE Digital DispenseController

1174337 – LOCTITE Micro Dispense Scale

1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensor

982720 / 982723 / 982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs

PINCH TUBE APPLICATOR

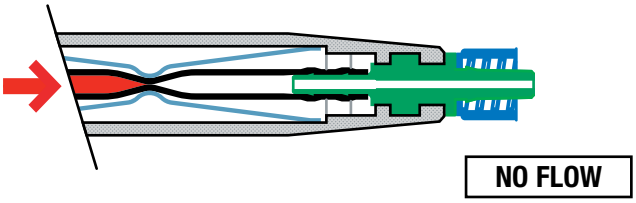
LOCTITE® VARI-DROP™ APPLICATOR

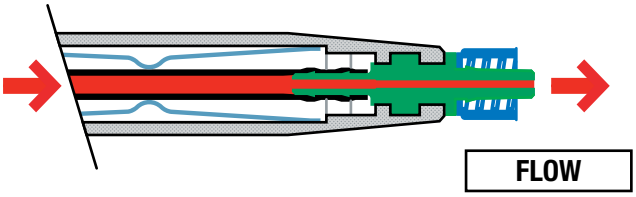
Item Numbers: 97131 and 97132

Our lowest cost, handheld dispensing valve using an effective pinch tube design, which can easily be exchanged out in a matter of minutes.

Features:

- The adjusting screw allows repeatable dispense from drops to heavy beads.
- Accepts a variety of dispensing needles to apply precise amounts of product.
- Low cost.
- Designed with light-blocking materials for light curing adhesives.
- Field serviceable.





The **RED** represents the fluid path.

TECHNICAL SPECIFICATIONS		
Type	Pinch Tube	
Viscosity Range	Low to Medium	
Size	5⁄8" H x 5⁄8" W x 6¼" L	
Weight	1.5 oz. (42.5 g)	
Air Input	100 psi	
Fluid Inlet	¼" Tube	
Fluid Pressure	100 psi maximum	
Fluid Viscosity Range	100 to 80,000 cP	
Wetted Components	PTFE, Polyethylene	
Tubing with PTFE	97131: Yes	97132: No
Used to Dispense	Instant Adhesives, Light Cure Acrylics, Retaining Compounds, Threadlockers	
Stroke Adjustment	No	
Actuation	Finger	
Parts Included	97131: (1) Vari-Drop™ Applicator (1) 7' x ¼" OD PTFE-Lined Hose with Hose Guards (1) Needle Kit 97262 (1) Manual	97132: (1) Vari-Drop™ Applicator (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see page 46. For Dispense Tips, see pages 64-65.	
Additional Accessories Sold Separately		
98501 – LOCTITE Applicator Holder	982719 / 982722 – LOCTITE Bond-A-Matic® 3000 Dispensers	97220 – 3⁄8" Feed Line Kit

LOCTITE® Brand Handheld Dispensing Valve Fluid Compatibility Chart

PRODUCT	LOCTITE LV Handheld Applicator	LOCTITE Manual Handheld Applicator	LOCTITE Pneumatic Handheld Applicator	LOCTITE Pneumatic Handheld Applicator	LOCTITE Vari-Drop™ Applicator
Item Number	97130	97111	97112	97116	97131 / 97132
Accelerators	✓	✓	✓	✓	✓
Acrylics		✓	✓	✓	✓
Activators	✓	✓	✓	✓	✓
Anaerobics	✓	✓	✓	✓	✓
Cyanoacrylates	✓				✓
Inks	✓	✓	✓	✓	✓
Oils		✓	✓	✓	✓
Paints		✓	✓	✓	✓
Primers	✓	✓	✓	✓	✓
Reagents	✓	✓	✓	✓	✓
Solvents	✓				✓
UV & Light Cure Fluids		✓	✓	✓	✓
UV Anaerobics		✓	✓	✓	✓
Water	✓				

Dispensing Valves

LOCTITE® brand dispensing valves are value-added, robust, dispensing valves for adhesive or fluid delivery. Each valve is specially designed to meet different manufacturing needs. These valves should be combined with a reservoir and/or a controller based on the chemistry and viscosity of the fluid being used and your specific process requirements.

PRODUCT		Item Number	Type	Viscosity Range	Dispense Patterns	Used to Dispense	Stroke Adjustment	Suck-Back
High Precision Valves								
	LOCTITE EQ VA20 Volumetric Valve	2084141	High Precision	Low to Medium	Dot, Drop	Light Cure Acrylics	Yes	No
	LOCTITE Stationary Applicator Valve	97113 97114	High Precision	Low to Medium	Drop, Dot, Bead	Gel Instant Adhesives, Instant Adhesives, Retaining Compounds, Threadlockers	Yes	Yes
	LOCTITE Micro Needle Valve	98084	High Precision	Low to Medium	Drop, Dot, Bead, Microdots	Light Cure Acrylics	Yes	No
High Performance Diaphragm Valves								
	LOCTITE EQ VA10 Micro Diaphragm Valve	1611449	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead, Microdots	Instant Adhesives	Yes	No
	LOCTITE Light Cure Dispense Valve	98009	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Light Cure Acrylics, Retaining Compounds, Threadlockers	Yes	No
	LOCTITE Cyanoacrylate Dispense Valve	98013	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Instant Adhesives, Retaining Compounds, Threadlockers	Yes	No
	LOCTITE EQ VA15 Diaphragm Valve	1730181	High Performance Diaphragm	Low to Medium	Drop, Dot, Bead	Silicones and Other Moisture Sensitive Adhesives	Yes	No
General Duty Diaphragm Valves								
	LOCTITE Diaphragm Valve	97135 97136	General Duty Diaphragm	0 to 2,500 cP 2,500 to 5,000 cP	Drop, Dot, Bead	Light Cure Acrylics, Instant Adhesives, Retaining Compounds, Threadlockers	No	No
Spray Valves								
	LOCTITE Spray Valve	98520	Spray Valve	Low	Spray	Primers, Activators, Accelerators	Yes	No
Jetting Valves								
	LOCTITE EQ VA30 Jet Valve	1850212	Jet Valve	1 to 400,000 cP	Drop, Dot, Bead	Light Cure Acrylates, Activators, Primers	No	No
High Viscosity Fluid and Paste Valves								
	LOCTITE Poppet Valve	986300	High Viscosity Fluid and Paste Valves	Medium to High	Drop, Bead	Anaerobic Gasketing, Retaining Compounds, Threadlockers	Yes	Yes
	LOCTITE EQ VA26 Dispense Valve - 50 Bar	1960414		10,000 to 1,000,000 cP		Silicones, MS Polymers, Urethanes		Yes
	LOCTITE High Pressure Dispense Valve - 150 Bar	1153502		500,000 to 2,000,000 cP				No

LOCTITE® EQ VA20 Volumetric Valve

Item Number: 2084141

The LOCTITE® EQ VA20 Volumetric Valve is a positive displacement metering valve that dispenses a precise volumetric drop of adhesive with each cycle. The EQ VA20 is designed with a flooded chamber and a single check valve that allows for quick priming and minimizes the need for re-priming. The priming system uses a patented valve design that improves the speed and reliability of priming. The innovative displacement rod and seal of the VA20 design provide long dispensing life before rebuild is needed. The LOCTITE EQ VA20 is specifically designed to dispense drops of LOCTITE Light Cure Adhesives with precise dosing in the range of 1.5 to 12 microliters.

Features:

- **Volumetric Displacement** – Independent of external factors such as viscosity and temperature.
- **Dosing Range** – 1.5 to 12 microliters.
- **Cycle Rate** – 180 cycles per minute.
- **Long-Life Seal Design**
  - Estimated life > 1 million cycles.
  - Energized seal does not require routine adjustment.
  - Low cost of ownership.
- **Easy Setup**
  - Specifically designed for simple, no-mess priming.
  - Does not lose prime during operation.
- **Compact Size**
  - 0.75" x 6.0" long.
  - Stackable at 0.75" centers.
- **Fluid Body Material is 316 Stainless Steel**

TECHNICAL SPECIFICATIONS	
Total Weight	0.13 kg (0.3 lbs.)
Size	19 mm diameter (0.748") x 15.3 cm (6.0") long
Viscosity Range	1 to 10,000 cP
Wetted Components	PTFE, SS, TiN
Operating Air Pressure	4 to 7 bar (60 to 100 psi)
Operating Product Pressure	2 to 5 bar (30 to 70 psi)
Fluid Compatibility	Light Cure Acrylics
Dispense Patterns	Drops/Dots
Items Supplied	LOCTITE EQ VA20 Volumetric Valve, IDH 2084141; Equipment Manual; PTFE lined tubing, 6.4 mm OD, 2 m long; Air Line 4 mm OD, blue, 2 m; Air Line 4 mm OD, yellow, 2 m; Needle Sample Kit
Additional Accessories Sold Separately	
	982723 – LOCTITE Bond-A-Matic® Reservoir, 0-100 psi with Low Level Sensing 982727 – LOCTITE Bond-A-Matic® Reservoir, 0-100 psi
	1390321 – LOCTITE Dual Channel Integrated Dispenser, 0-100 psi
Spare Parts Sold Separately	
2084140 – LOCTITE EQ VA20 Seal Kit 985281 – LOCTITE Valve Mounting Bracket	

LOCTITE® Stationary Applicator Valve

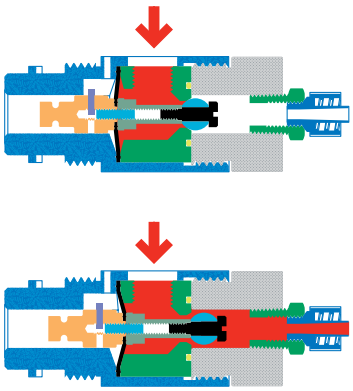
Item Numbers: 97113 and 97114

Our best pressure-time dispense valve with double-acting air to open/close for your most stringent, high volume dispensing applications.

Handheld Option

Features:

- Slim, lightweight, sealless dispense valve.
- Modular design of product shutoff valve and valve actuator provides on-line serviceability.
- Fail-safe – spring-assisted close.
- Suck-back feature eliminates product stringing.
- Double-acting cylinder allows adjustable opening and closing speed for process control.
- Cycle rate exceeds 36 per minute.
- Operational with pressure-time applications.
- Dispenses fluids up to 15,000 cP (item 97113) or 80,000 cP (item 97114).



NO FLOW

The **RED** represents the fluid path.

FLOW

TECHNICAL SPECIFICATIONS		
Type	High Precision	
Viscosity Range	Low to Medium	
Size	7.6" L x 2.4" H	
Weight	0.75 lbs.	
Maximum Fluid Pressure	80 psi	
Air Inlet Port	5/32" Tubing Fitting	
Air Inlet	60 to 80 psi	
Product Inlet	97113: ¼" OD Tube	97114: ⅜" OD Tube
Fluid Outlet	¼" UNF, Tip Adapter, Luer-Lok Output Fitting	
Dispense Patterns	Drop, Dot, Bead	
Used to Dispense	Gel Instant Adhesives, Instant Adhesives, Retaining Compounds, Threadlockers	
Stroke Adjustment	Yes	
Suck-Back	Yes	
Valve Type	Pressure-Time Dispense	
Wetted Components	Acetal Copolymer, PTFE and PTFE Coated Metals	
Air Cylinder	Double-acting diaphragm cylinder / flow control of both ports / spring return for fail-safe function	
Parts Included	(1) Feed Line (1) Anti-Bubbler Adapter and Sleeve (1) Dispense Valve (1) Needle Kit (1) Manual	
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Dispense Tips, see pages 64-65.	

Additional Accessories Sold Separately

97152 – LOCTITE Dual-Channel Automatic Controller

97101 – LOCTITE Digital Dispense Controller

1022006 – LOCTITE Digital Multi-Functional Controller

1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensors

982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs

982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors

98022 – LOCTITE 300 ml Cartridge Pusher

1095801 – LOCTITE External Mix Assembly, designed for positioning two (2) separate dispense valves (sold separately) in proper alignment for high-speed dispensing of a 2-part, externally mixed adhesive without the use of a static mix nozzle.

1176444 – Pistol Grip Trigger (Requires mounting bracket 97242 for use with 97113 / 97114)

1174337 – LOCTITE Micro Dispense Scale

LOCTITE® Micro Needle Valve

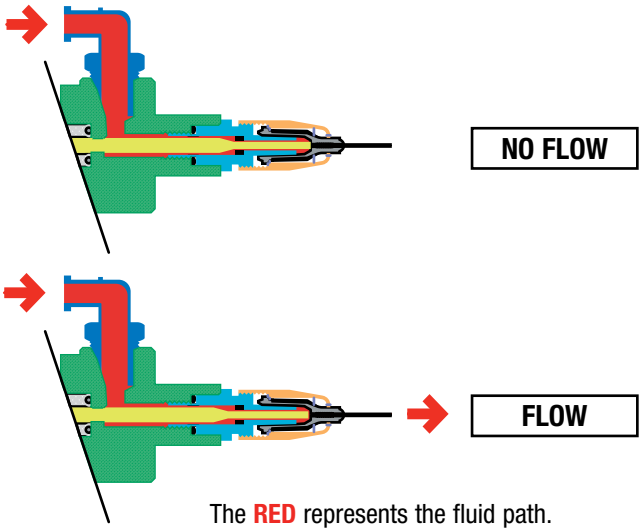
Item Number: 98084

Provides precision adhesive dispensing all the way down to 0.0005 ml. No other LOCTITE valve is that precise at such small dispense quantities.

Features:

- Dispenses low- to medium-viscosity UV curing products down to a fraction of a microliter.
- Short opening stroke provides extremely fast, positive shutoff.
- External stroke control adjustment makes it easy for operator to fine-tune shot sizes.
- Compact design allows for mounting flexibility and easy integration into automated applications.
- Capable of connecting to syringe barrels as small as 5 ml to 30 ml.
- Change the Luer fitting to a tube fitting, and any size pressure reservoir can be used.
- Designed to be used with high precision stainless steel needles.

98084 – LOCTITE Micro Needle with Handheld Option



The **RED** represents the fluid path.

TECHNICAL SPECIFICATIONS		
Type	High Precision	
Viscosity Range	Low to Medium	
Size	5" L x 1.1" D (127 mm L x 28.5 mm D)	
Weight	8 oz. (227 g)	
Maximum Fluid Pressure	100 psi (7 bar)	
Fluid Inlet	⅛" NPT	
Air Inlet	10-32 UNF-2B Male Luer-Lok	
Pneumatic Supply	Minimum – 60 psi (4.8 bar)	Maximum – 100 psi (7 bar)
Product Inlet	¼" NPT	
Fluid Outlet	¼" UNF Luer-Lok Tip	
Dispense Patterns	Drop, Dot, Bead	
Used to Dispense	Light Cure Acrylics	
Stroke Adjustment	Yes	
Suck-Back	No	
Valve Type	Pressure-Time Dispense	
Wetted Components	Acetal Copolymer, Stainless Steel, PTFE	
Parts Included	(1) Needle Variety Kit – Uses stainless steel needles only (1) Fluid Fitting, ⅛" NPT x ¼" Tube (1) Product Feed Line, ¼" (1) Air Line Tubing, 5 ft. (1) Micro Needle Valve (1) Manual	
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Dispense Tips, see pages 64-65.	
Additional Accessories Sold Separately		
97152 – LOCTITE Dual-Channel Automatic Controller	1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensors	
1174337 – LOCTITE Micro Dispense Scale	982720 / 982723 / 982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs	
1022006 – LOCTITE Digital Multi-Functional Controller	97101 – LOCTITE Digital Dispense Controller	
98099 – LOCTITE Precision Filter and Regulator (required for use with all pressure-time dispense controllers, other than 97152) 985281 – LOCTITE Valve Mounting Bracket 997569 – LOCTITE Silicone Grease		

LOCTITE® EQ VA10 Micro Diaphragm Valve

Item Number: 1611449

The LOCTITE® EQ VA10 Micro Diaphragm Valve is a miniature dispensing valve designed to dispense precision drops and beads of low- to medium-viscosity adhesive. Its compact size allows for closer center-to-center spacing for multiple point dispensing in applications like needle bonding. Its lightweight feature allows for faster motion control movements when used on robot systems and can dispense at a faster frequency as compared to conventional valves. A tamper-resistant stroke control provides for high-resolution stroke adjustment.

Features:

- Stackable at 0.75" on center.
- Bubble-free, no-drip dispensing.
- Compact size and weight.
- High-resolution stroke adjustment.
- Sealless design.
- Fail-safe – air to open. Spring to close.
- UHMW polyethylene diaphragm.
- Fluid body material: 316 stainless steel.
- Fitting – ¼" barbed type, 316 stainless steel.
- Tamper-resistant stroke control.

TECHNICAL SPECIFICATIONS	
Type	High Precision Diaphragm
Viscosity Range	Low to Medium
Size	2.62" x 0.75"
Weight	50 grams
Maximum Fluid Pressure	70 psi
Fluid Inlet	¼" Barbed
Air Inlet	70 to 90 psi
Product Inlet	¼" PTFE-Lined Tubing
Fluid Outlet	¼"-28 UNF, Tip Adapter, Luer-Lok Output Fitting
Dispense Patterns	Drop, Dot, Bead, Microdot
Used to Dispense	Light Cure Adhesives, Cyanoacrylates, Primers/Activators, Silicones and Acrylics
Stroke Adjustment	Yes
Suck-Back	No
Valve Type	Diaphragm
Wetted Components	Chamber: Stainless Steel Diaphragm: Ultra-High Molecular Weight Polyethylene
Parts Included	(1) 2 m Air Line Tubing (1) 2 m Product Tubing, ¼" OD PTFE-Lined (1) Needle Kit (1) Valve Assembly (1) Instructional Manual (1) Tamper-Resistant Stroke Key
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

97152 – LOCTITE Dual-Channel Automatic Controller

1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensors

97101 – LOCTITE Digital Dispense Controller

982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs

982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors

1174337 – LOCTITE Micro Dispense Scale

1022006 – LOCTITE Digital Multi-Functional Controller

HIGH PERFORMANCE DIAPHRAGM VALVES

LOCTITE® Light Cure Dispense Valve

Item Number: 98009

LOCTITE® Cyanoacrylate Dispense Valve

Item Number: 98013

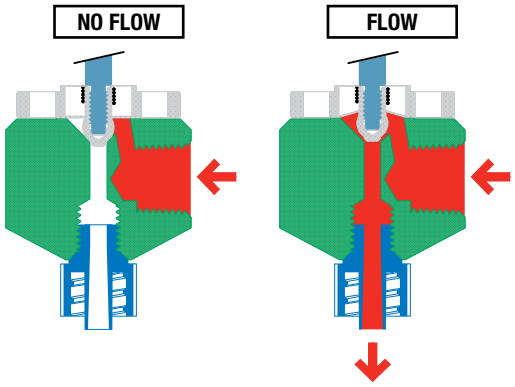
LOCTITE® EQ VA15 Diaphragm Valve

Item Number: 1730181

Our high performance "workhorse" diaphragm valves dispense low-to-medium light curing (98009), cyanoacrylates (98013) or silicones and other moisture sensitive adhesives (1730181). You can expect reliable, long-term service and highly repeatable shot-to-shot performance for even your toughest high cycle rate requirements. These valves have a very small profile and simple design to facilitate quick field repairs.

Features of Dispense Valves:

- Compact size and weight.
- Adjustable fluid flow control.
- Fail-safe, air to open, spring close.
- Positive shutoff, no seals.
- Bubble-free, no-drip dispensing.
- Field serviceable.
- Easy cleaning without valve demounting.
- Cycle rate exceeds 500 per minute.



The **RED** represents the fluid path.

98009 – LOCTITE Light Cure Dispense Valve

98013 – LOCTITE Cyanoacrylate Dispense Valve

1730181 – LOCTITE EQ VA15 Diaphragm Valve

Handheld Option

TECHNICAL SPECIFICATIONS			
Type	High Performance Diaphragm		
Viscosity Range	Low to Medium		
Size	3.090" x 1.060" Diameter		
Weight	4.5 oz. (128 g)		
Maximum Fluid Pressure	70 psi		
Fluid Inlet	⅛" NPT		
Fluid Outlet	¼"-28 UNF, Tip Adapter, Luer-Lok Output Fitting		
Air Inlet Port	¼" Tube Fitting		
Air Input	70 to 90 psi		
Air Cylinder	Single Acting, Spring Return, Stroke Control, Aluminum, Hard Coated Finish		
Dispense Patterns	Drop, Dot, Bead, Microdot		
Used to Dispense	98009: Light Cure Acrylics, Retaining Compounds, Threadlockers	98013: Gel Instant Adhesives, Retaining Compounds, Threadlockers	1730181: Silicones and Other Moisture Sensitive Adhesives
Stroke Adjustment	Yes		
Suck-Back	No		
Valve Type	Diaphragm		
Wetted Components	98009: **Chamber:** ACETAL **Diaphragm:** UHMW Irradiated Polyethylene	98013: **Chamber:** UHMW Polyethylene **Diaphragm:** UHMW Irradiated Polyethylene	1730181: **Chamber:** SS **Diaphragm:** UHMW Irradiated Polyethylene
Mounting Hole	(1) 10-32 UNF		
Parts Included	(1) 5 ft. Air Line Tubing (attached to valve) (1) Needle Kit (1) 6 ft. Product Tubing, ¼" OD, PTFE-Lined (1) Valve Mount Screw (1) Valve Assembly (1) Manual		
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Dispense Tips, see pages 64-65.		

Additional Accessories Sold Separately		
97152 – LOCTITE Dual-Channel Automatic Controller	1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensors	97115 – LOCTITE Electric Rotorspray
97101 – LOCTITE Digital Dispense Controller	982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs	982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors
1022006 – LOCTITE Digital Multi-Functional Controller		98022 – LOCTITE 300 ml Cartridge Pusher
1176444 – Pistol Grip Trigger		1174337 – LOCTITE Micro Dispense Scale

For additional information and the full line of equipment, visit **equipment.loctite.com.**

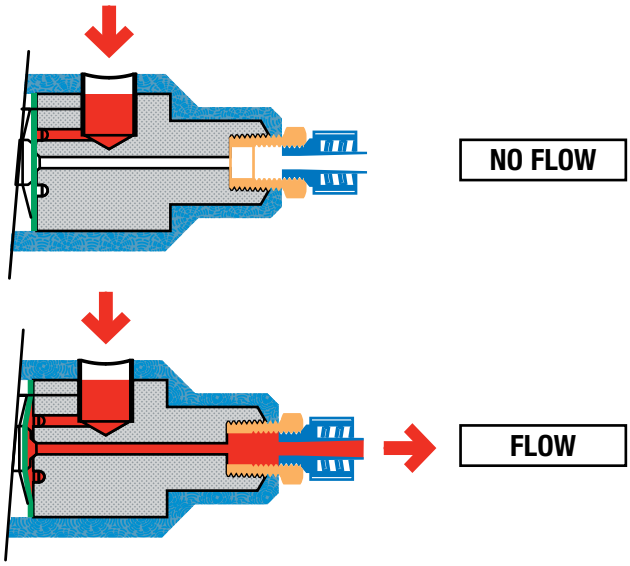
LOCTITE® Diaphragm Valve

Item Numbers: 97135 and 97136

Our most economical PTFE diaphragm dispense valves that can be used to dispense lower viscosity adhesives. Perfect choice for anaerobic bore coating applications using our LOCTITE® Electric Rotorspray and accessories.

Features:

- Cost-effective valve for use with pressure-time dispense systems.
- Modular design and floating diaphragm allow for easy cleaning or repair.
- Fail-safe, spring-assisted close.
- Internal components are made of PTFE to prevent premature curing.
- Flow rates can be increased with use of a ⅜ in. feed line.
- Available in low viscosity (item 97135) and medium viscosity (item 97136) versions.



The **RED** represents the fluid path.

TECHNICAL SPECIFICATIONS		
Type	General Duty Diaphragm	
Viscosity Range	0 to 2,500 cP	2,500 to 5,000 cP
Size	5" L x 1.25" D (127 mm L x 32 mm D)	
Weight	10.5 oz. (300 g)	
Maximum Fluid Pressure	7 to 58 psi (0.5 to 4 bar)	
Fluid Inlet	¼" Tubing or upgrade to ⅜" (Item 97220)	
Air Inlet	5⁄32" Tubing	
Pneumatic Supply	Minimum – 73 psi (5 bar)	Maximum – 100 psi (7 bar)
Product Inlet	97135: ¼" OD	97136: ⅛" OD
Fluid Outlet	¼" UNF Luer-Lok Tip	
Dispense Patterns	Drop, Dot, Bead	
Used to Dispense	Light Cure Acrylics, Retaining Compounds, Threadlockers	
Stroke Adjustment	No	
Suck-Back	No	
Valve Type	Pressure-Time Dispense	
Wetted Components	Acetal, Stainless Steel, PTFE-Coated Metals	
Parts Included	(1) Diaphragm Valve (1) Needle Variety Kit	(1) Product Feed Line, ¼" (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Dispense Tips, see pages 64-65.	

Additional Accessories Sold Separately

97152 – LOCTITE Dual-Channel Automatic Controller

1022006 – LOCTITE Digital Multi-Functional Controller

97101 – LOCTITE Digital Dispense Controller

1390321 / 1390322 – LOCTITE Integrated Semiautomatic Controllers with Low Level Sensors

982720 / 982723 / 982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs

97115 – LOCTITE Electric Rotorspray
97119 – LOCTITE Advancing Slides

I.D. Bore Coat Accessories

97152

97115

97119

LOCTITE® Spray Valve

Item Number: 98520

LOCTITE® Spray Valve Controller

Item Number: 1406023

The LOCTITE® Spray Valve and LOCTITE Spray Valve Controller provide an effective solution for automatic spraying of low viscosity primers, accelerators and activators up to 1,200 cP with high precision and long-term reliability. You can count on consistent performance over a wide range of operating conditions, giving you spray coverage consistency shot after shot.

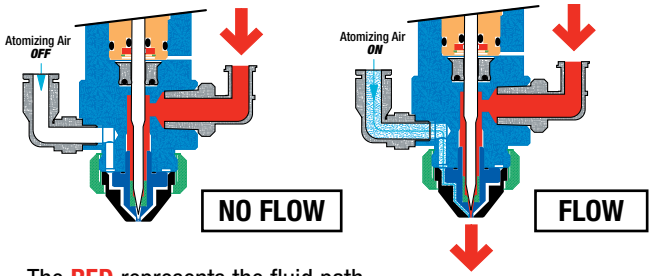
Features:

LOCTITE Spray Valve

- High precision, short stroke, needle and seat design provide repeatable spray pattern performance.
- Air pressure and stroke adjustment allow a wide range of spray pattern coverage control.
- Full stainless steel body and wetted parts provide long-term performance and durability.
- Cycle rate up to 600 per minute.
- Easy cleaning and servicing.
- A 0.046 in. nozzle diameter (standard) provides consistent round, full-cone pattern.
- Optional 0.014 in. and 0.028 in. diameter nozzle kits for lower spray pattern applications.

LOCTITE Spray Valve Controller

- Microprocessor-based, timed controller.
- Fully independent valve, open/close and atomization air supply.
- Three separate timed sequences – pre-spray, valve on, post-spray/valve off.
- Timed or manual mode with foot pedal control.
- All time modes maintained in memory with AC power disconnected.



The **RED** represents the fluid path.

98520 – LOCTITE Spray Valve with Handheld Option

1406023 – LOCTITE Spray Valve Controller (See page 17)

TECHNICAL SPECIFICATIONS	
98520 – LOCTITE Spray Valve	
Type	Spray Valve
Viscosity Range	Up to 1,200 cP
Air Pressure Supply	60 to 100 psi
Fluid Inlet Port	⅛" NPT
Weight	0.8 lbs. (385 g)
Spray Height / Pattern Diameter	1"/0.25", 2"/0.50", 3"/0.75", 4"/1.5", 5"/3" (0.046 nozzle)
Dispense Pattern	Spray – Circular
Used to Dispense	Accelerators, Activators, Primers
Stroke Adjustment	Yes
Suck-Back	No
Valve Type	Pressure-Time Dispense
Wetted Components	304 Stainless Steel
Parts Included	(1) Valve Mounting Bracket with screw (1) Valve Assembly (1) Fluid Line Assembly (1) Air Line Assembly (1) Operation Manual (1) Hex Key (1) Seat Removal Tool
1406023 – LOCTITE Spray Valve Controller	
Power Source	120 VAC
Air Supply	⅛" Tube Fitting – 100 psi maximum
Weight	5.5 lbs.
Dimensions	2.5" H x 12.4" L x 7.6" D
Parts Included	(1) Controller Unit & Power Cord (1) Foot Pedal (1) Air Supply Line & Filter – 4 ft.
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59.
Additional Accessories Sold Separately	
989268 – 0.014" Nozzle Kit 989269 – 0.028" Nozzle Kit 984621 – LOCTITE Replacement Foot Switch	982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors
982726 / 982727 – LOCTITE Bond-A-Matic® Reservoirs	

LOCTITE® EQ VA30 Jet Valve

Item Number: 1850212

LOCTITE® EQ VA30 Jet Controller

Item Number: 1850211

The VA30 Jet Valve and Controller are designed for fluid dispensing in the electronics, industrial, semiconductor and life science markets. It is unlike any other jet on the market because this non-contact jet dispensing product employs a unique diaphragm technology. The VA30 Jet Valve is extremely fast, can dispense on-the-fly, and is designed for robotic applications. The system is suited for dispensing a wide range of fluids for a variety of applications. To ensure best product compatibility, the fluid path is made from ceramic and stainless steel and the diaphragm is made of a highly fluorinated elastomeric material.

Features:

LOCTITE EQ VA30 Jet Valve and Jet Controller

- No fluid seals to clean or replace.
- Valve is field repairable, not necessary to return to factory for rebuild or repair.
- Integral heater with minimal fluid heated.
- Tungsten carbide or ceramic internal components for long life.
- Can apply multiple drops-per-location at a speed up to 300 drops/sec.
- Hard-to-dispense fluids can be dispensed reliably in volumes as small as 10 nanoliters.
- The drops can be dispensed into areas with clearance as small as 300 µm without contamination of the surface.
- User can adjust drop size ± 20% from normal size, allowing a wide range of adjustability.

TECHNICAL SPECIFICATIONS	
1850211 – LOCTITE EQ VA30 Jet Valve Controller	
PARAMETER	**SPECIFICATIONS**
Size EQ VA30 Jet Valve w/o mounting bracket)	Dimensions: 152.5 mm H x 24.5 mm W x 341.4 mm D
	Weight: 3,200 g
Power	100-240 Vac, 50/60 Hz, 50 watts Max., single phase **Fuse:** 5 x 20 mm, Quick-acting, 1 amp, 250 VAC
Input Air Pressure	• Source: 70 to 100 psi • Clean, dry air required • 40 µm filter required • External pressure release device recommended 100 psi
Output Air Pressure	**Jet:** 35 psi to 90 psi
	Fluid: 40 psi Max.
Nozzle Heater	• Heating, Room Temperature to 70°C Max. + or - 1.0°C @ 50°C • PID Control Using Platinum RTD • 24VDC, 5.7W, 100 ohm
Ambient Temperature	15°C to 50°C
Controller Interface	• LCD Display with Keypad • RS-232 Serial Port
Input/Output	26 pin DB Connector, Digital Inputs Pulled to GND
EQ VA30 Jet Valve Controller Software	External Software, Fluid Tables with Parameters, Programmable Drop Recipes
Ingress Protection	IP20 / TYPE 1 Protected against ingress of solid foreign objects greater than 12.5 mm. Not protected for ingress of water. Enclosure constructed for indoor use.
Altitude	2,000 m Max. (6,652 ft.)
System Integration	Designed for Robotic Applications

EQ VA30 Jet Controller:

Item Number: 1850211

- (1) EQ VA30 Jet Controller
- (1) Power Cable
- (1) Valve Connection Cable (15 pin Sub-D)
- (1) Robot Connection Cable (26 pin Sub-D)
- (1) 2 m Air Connection Tube 6 mm Diameter
- (1) Operating Manual

EQ VA30 Jet Valve:

Item Number: 1850212

- (1) EQ VA30 Jet Valve
- (1) Diaphragm (FFKM black)
- (5) O-Rings
- (1) Syringe Air Connector for 30 or 50 cc
- (1) 1.5 m Air Connection Tube 6 mm Diameter
- (5) Feed Tubes (black)
- (1) Adapter Ring for 10 cc Syringes

Nozzle Type (Order Separately):

	Item Number:
• 75 µm Nozzle Plate	1872279 *or*
• 125 µm Nozzle Plate	1871880 *or*
• 200 µm Nozzle Plate	1871874

Spare Parts and Accessories

• Diaphragm FFKM (5 pack)	1871875
• O-Ring (10 pack)	1872538
• Feed Tubes Black (50 pack)	1871876
• Cleaning Kit for 75 µm Nozzle	1871879
• Syringe Air Line Adapter (2 pack)	88678
• Cleaning Kit for 125 µm Nozzle	1871878
• Cleaning Kit for 200 µm Nozzle	1871877
• Air Cylinder Repair Kit	1874364
• Heater Repair Kit	1874363

TECHNICAL SPECIFICATIONS	
1850212 – LOCTITE EQ VA30 Jet Valve	
PARAMETER	**SPECIFICATIONS**
Size EQ VA30 Jet Valve w/o mounting bracket)	Dimensions: 90.3 mm H x 25.4 mm W x 82.0 mm D
	Weight: 400 g
Drop Size Range 75 µm Nozzle 125 µm Nozzle 200 µm Nozzle	Typical, depends on material 5-25 µg 25-80 µg 80-200 µg
Speed: Refill Time: Dwell Time:	> 1.7 msec > 1.9 msec
Fluid Viscosity Range	1-400K mPas (cP)
Fluid Syringes	10, 30 and 55 cc
Input Air Pressure	**Jet:** 35 psi to 90 psi
	Fluid: 40 psi Max.
Nozzle Heater	Heating, Room Temperature to 70°C Max.
	+ or - 1.0°C @ 50°C
	PID Control Using Platinum RTD
	24VDC, 5.7W, 100 ohm
Ambient Temperature	15°C to 50°C

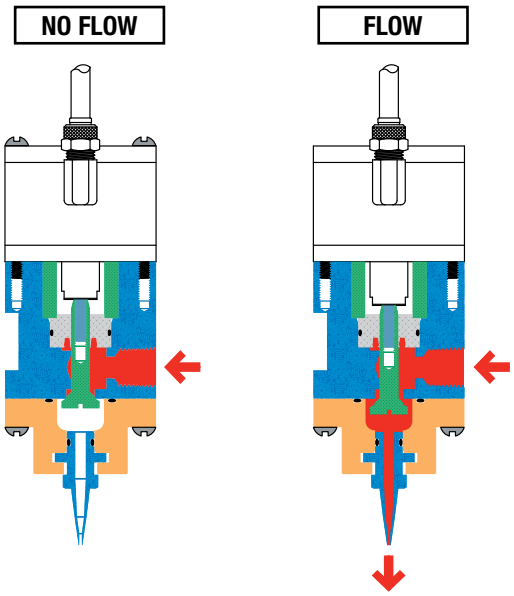
LOCTITE® Poppet Valve

Item Number: 986300

Double-acting dispense valve that is used to dispense medium- to high-viscosity anaerobic gasketing products and structural acrylics. It features a suck-back capability and can operate at fluid pressures up to 650 psi. Delrin® valve body is normally used in conjunction with a Pump-A-Bead™ II 850 ml Dispenser System.

Features:

- Poppet design gives valve "suck-back" feature.
- Bayonet-type mounting of nozzles provides end location repeatability.
- Handles product pressures up to 625 psi.
- Positive mounting surface.
- High strength plastic material versions are specially treated to be inert to LOCTITE brand products.



TECHNICAL SPECIFICATIONS	
Type	High Viscosity Fluids and Pastes
Viscosity Range	Medium to High Anaerobics and Acrylics
Size	5.28" H x 2.00" D
Weight	1.3 lb. (0.59 kg) valve plus fittings and tubing
Maximum Fluid Pressure	Should not exceed 625 psi
Air Input	60 psi
Inlet	¼" NPT
Dispense Tip Style	986300: Bayonet Style
Used to Dispense	Anaerobic Gasketing, Retaining Compounds, Threadlockers
Dispense Patterns	Bead, Drop
Stroke Adjustment	Yes
Suck-Back	Yes
Valve Type	Pressure-Time Dispense
Wetted Components	Acetal Copolymer treated with a proprietary LOCTITE brand process
Parts Included	(1) Acetal Copolymer Body (2) 4 ft. Control Air Tubing (1) Accessory Kit (1) 4 ft. Product Supply Tubing (1) Manual
Additional Information	For Spare Parts & Bayonet-type Nozzles, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Luer-Lok Dispense Tips, see pages 64-65.
Additional Accessories Sold Separately	

986000 – LOCTITE Pump-A-Bead™ II

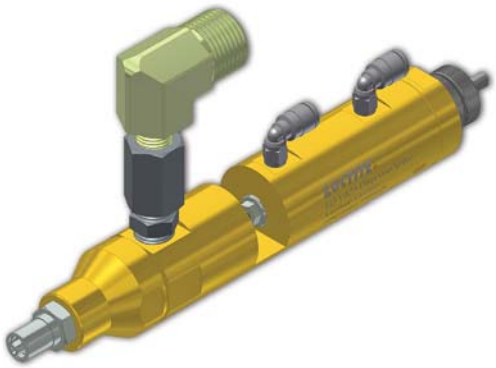
LOCTITE® EQ VA26 Dispense Valve – 50 Bar

Item Number: 1960414

The perfect dispensing valve to complement our LOCTITE® Benchtop High Pressure Dispenser for 300 ml cartridges. High precision, double-acting dispense valve that is used to dispense medium- to high-viscosity silicones, MS polymers and urethane products.

Features:

- Lightweight and durable – can be mounted or omfortably handheld.
- Handles high viscosity adhesives up to 1,000,000 cP.
- Bubble-free, no-drip dispensing with suck-back control.
- High-resolution stroke adjustment.
- Double-acting – air to open/air to close for precision dispensing.



TECHNICAL SPECIFICATIONS	
Type	High Viscosity Fluids and Pastes
Viscosity Range	10,000 to 1,000,000 cP
Pneumatic Supply	100 psi Maximum
Pneumatic Air Quality	Filtered 10 micron, oil-free, non-condensing (Optional, use LOCTITE Air Filter - Regulator 985397)
Dimensions	8.3" L x 1.22" D (200 mm x 31 mm)
Free-Flow Orifice	0.200" Diameter (5 mm)
Inlet Thread	½" – 14" BSPP with JIS 60" Core
Outlet Thread	Luer-Lok
Maximum Fluid Pressure	725 psi
Weight	1.2 lbs.
Stroke Adjustment	Yes
Suck-Back	Yes
Wetted Components	Aluminum
Parts Included	(1) High Pressure Valve (1) 2 m Air Line Tubing (1) Manual
Additional Information	For Fluid Compatibility Selector Chart, see pages 58-59. For Luer-Lok Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

1046901 – LOCTITE High Pressure 300 ml Benchtop Cartridge Dispenser

LOCTITE® High Pressure Dispense Valve – 150 Bar

Item Number: 1153502

Our top-of-the-line high pressure stainless steel dispense valve with double-acting valve actuation. It also can be used with our LOCTITE® Benchtop High Pressure Dispenser or with pail and drum pump applications.

Features:

- Stainless steel valve ensures long-term, durable dispensing performance.
- Working fluid pressure up to 2,175 psi to accommodate high viscosity adhesives.
- Bubble-free, no-drip dispensing with positive needle valve shutoff.
- High resolution stroke adjustment.
- Double-acting open/close valve provides high level of dispensing precision.

TECHNICAL SPECIFICATIONS	
Type	High Viscosity Fluids and Pastes
Viscosity Range	Approximately 500,000 to 2,000,000 cP
Pneumatic Supply	55 psi to 85 psi
Pneumatic Air Quality	Filtered 10 micron, oil-free, non-condensing (Optional, use LOCTITE Air Filter - Regulator 985397)
Dimensions	6.220" L x 1.181" W x 1.181" H
Free-Flow Orifice	0.118" Diameter (3 mm)
Inlet Thread	¼" NPT Female
Outlet Thread	Luer-Lok
Maximum Fluid Pressure	2,175 psi (150 bar)
Weight	1.5 lbs.
Stroke Adjustment	Yes
Suck-Back	No
Wetted Components	Stainless Steel
Parts Included	(1) High Pressure Valve (1) 2 m Air Line Tubing (1) Manual
Additional Information	For Fluid Compatibility Selector Chart, see pages 58-59. For Luer-Lok Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

1046901 – LOCTITE High Pressure 300 ml Benchtop Cartridge Dispenser

LOCTITE® Brand Valve & Pump Fluid Compatibility Chart

PRODUCT	LOCTITE® EQ VA10 Micro Diaphragm Valve	LOCTITE® Light Cure Dispense Valve	LOCTITE® Cyanoacrylate Dispense Valve	LOCTITE® EQ VA15 Diaphragm Valve	LOCTITE® Micro Needle Valve
Item Numbers	1611449	98009	98013	1730181	98084
Accelerators	✓	✓	✓	✓	
Acrylics	✓	✓		✓	✓
Activators	✓	✓	✓	✓	
Anaerobics		✓	✓		
Anaerobic Gasketing					
Cyanoacrylates	✓		✓	✓	
Inks	✓	✓	✓	✓	✓
Lubricants	✓			✓	
Modified Silanes					
Nonabrasive Greases	✓			✓	
Oils	✓	✓	✓	✓	
One-Part Epoxies	✓			✓	
Paints	✓	✓	✓	✓	
Primers	✓	✓	✓	✓	
Reagents		✓	✓	✓	
Silicones	✓			✓	
Solvents	✓	✓	✓	✓	
UV & Light Cure Fluids	✓	✓		✓	✓
UV Anaerobics		✓			
Water	✓	✓	✓	✓	✓

LOCTITE® Brand Valve & Pump Fluid Compatibility Chart (continued)

PRODUCT	LOCTITE® Diaphragm Valve	LOCTITE® Stationary Applicator Valve	LOCTITE® Spray Valve	LOCTITE® Poppet Valve	LOCTITE® EQ VA26 Dispense Valve – 50 Bar	LOCTITE® High Pressure Dispense Valve – 150 Bar
Item Numbers	97135 / 97136	97113 / 97114	98520	986300	1960414	1153502
Accelerators			✓			
Acrylics	✓	✓		✓		
Activators			✓			
Anaerobics	✓	✓		✓		
Anaerobic Gasketing				✓		
Cyanoacrylates	✓	✓				
Inks	✓	✓	✓			
Lubricants		✓	✓	✓	✓	✓
Modified Silanes					✓	✓
Nonabrasive Greases				✓		✓
Oils	✓	✓			✓	
One-Part Epoxies		✓		✓		✓
Paints		✓	✓			
Primers			✓			
Reagents			✓			
Silicones					✓	✓
Solvents			✓			
UV & Light Cure Fluids	✓	✓				
UV Anaerobics	✓	✓				
Water	✓		✓			

Anaerobic – Special Dispense Systems

LOCTITE® brand anaerobic dispense systems are designed to apply LOCTITE anaerobic products for threadlocking, retaining and sealing in a wide range of applications from I.D. bore coating to gasket making.

LOCTITE® Positive Displacement Pump

Item Number: 983330

The LOCTITE Positive Displacement Pump features a sealless design. It is specifically designed to dispense LOCTITE brand threadlockers and retaining compounds in LOCTITE Electric Rotorspray applications with a high degree of precision. The dispense capability of this pump is 0.02 cc to 0.4 cc. It has a modular design for easy maintenance. For LOCTITE Electric Rotorspray applications, it is normally used with the LOCTITE Digital Multi-Function Controller (Item Number: 1022006).

Features:

- Positive displacement.
- Pneumatically operated.
- Designed for compatibility with LOCTITE Electric Rotorspray workstations.
- Modular design of product shutoff valve and valve actuator provides on-line serviceability.
- Cycle rate for low viscosity products exceeds 120 per minute.
- Small, easy-to-use design.
- Adjustable stroke to control the amount of material dispensed.
- Compatible with a wide range of fluids.
- Repeatable and consistent delivery of product.

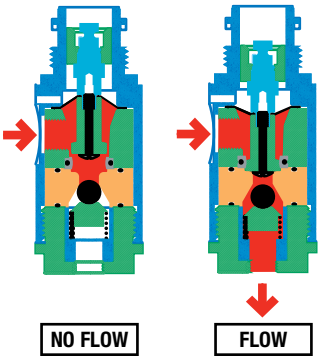
TECHNICAL SPECIFICATIONS	
Type	Positive Displacement Pump
Viscosity Range	Low to Medium
Size	9.15" H x 1.88" D (maximum) / 2.6" W (with connections)
Weight	1.7 lbs.
Air Input	60 to 90 psi
Product Line Feed	⅜" OD before pump, ¼" OD after pump
Fluid Capacity	0.02 cc to 0.40 cc per shot
Cycle Speed	2 cycles per second maximum (adjustable)
Dispense Patterns	Drop
Used to Dispense	Retaining Compounds, Threadlockers, Any single-component, non-moisture-curing, low- to medium-viscosity fluid (<100,000 cP)
Stroke Adjustment	Yes
Suck-Back	No
Valve Type	Positive Displacement
Wetted Components	Acetal Copolymer, Stainless Steel and PTFE Coated Metals
Parts Included	(1) Positive Displacement Pump (1) Feed Line Accessory Kit (1) Mounting Bracket (1) Air Line Kit (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70. For Fluid Compatibility Selector Chart, see pages 58-59. For Dispense Tips, see pages 64-65.

Additional Accessories Sold Separately

1022006 – LOCTITE Digital Multi-Functional Controller

982880 – LOCTITE 4 Liter Gravity Feed Reservoir

LOCTITE Electric Rotorspray 9000 Applicator



The **RED** represents the fluid path.

LOCTITE® ROTORSPRAY 9000 APPLICATOR

The LOCTITE® Electric Rotorspray 9000 Applicator is a pneumatically powered applicator used for applying 360-degree beads of a fluid on the inside diameter of any surface or threaded hole. Common materials applied are retaining compounds, threadlockers, activators/primers and oils. Common applications are engine cup plug sealing, bearing retaining and motor magnet bonding. LOCTITE Electric Rotorspray applicators can be used in a variety of applications and configurations, and are typically used in conjunction with the LOCTITE Positive Displacement Pump (item 983330) and LOCTITE 4 Liter Gravity Feed Reservoir (item 982880). If you have an application requiring an internal 360-degree bead, contact the Henkel technical information department at ***1.800.LOCTITE*** (562.8483), for the right LOCTITE Electric Rotorspray applicator for your application.

LOCTITE® PUMP-A-BEAD™ II DISPENSER

Item Number: 986000

The LOCTITE Pump-A-Bead™ II is an all-pneumatic dispense system for pumping LOCTITE anaerobic gasketing materials from 850 ml cartridges. A pneumatically driven, reciprocating, positive displacement piston pump provides for consistent dispensing and ensures that air is not introduced into the product. This system is well-suited for stationary or bead dispensing. The LOCTITE Poppet Valve is also included and is ideal for dispensing continuous beads at high pressures.

Features:

- Air-driven, reciprocating, positive displacement piston pump.
- Poppet-type dispensing valve can be mounted onto a robotic arm.
- Anti-drip feature.
- Visual signal will indicate “Product Cartridge Empty.”
- Easily integrated into robotic dispensing stations.

Theory of Operation

A full cartridge of material is loaded into the system and the unit is switched to operate mode. Upon demand for dispensing, i.e., pneumatic signal, material is fed from the cartridge to an oscillating pump where the pressure is elevated to greater than 650 psi. Material is forced through a high-pressure hose to the dispense valve where it is dispensed onto the part.

TECHNICAL SPECIFICATIONS	
Air Input	All-pneumatic system, 60 to 100 psi, filtered to 40 microns
Product Viscosity	Medium to High
Compatible Materials	LOCTITE brand deaerated anaerobic gasketing materials up to 1,000,000 cP viscosity
Pumping Rate	0.5 cc per second
Dimensions	16.3" H x 37.2" W x 9.3" D
Weight	80 lbs.
Used to Dispense	LOCTITE brand Flange Sealants
Package Types & Sizes	850 ml cartridges
Parts Included	(1) Pump-A-Bead™ II (1) Poppet Valve Applicator (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70.

LOCTITE® Dial-A-Seal® Applicator

Item Number: 998400

The LOCTITE® Dial-A-Seal® Applicator is a touch-actuated, all-pneumatic applicator for dispensing high viscosity LOCTITE product onto threaded pipe fittings and nipples. The system has a quick turn turret that is equipped with cavities for 1⁄16, 1⁄8, 1⁄4, 3⁄8, 1⁄2, 3⁄4 and 1 inch male pipe threads. The unit accepts 50 ml or 250 ml tubes or 1 liter wide mouth bottles. The product dispense quantity can be adjusted with a rear adjustment knob. The upper limit per dispense cycle is 0.7 ml. It is recommended specifically for applying LOCTITE PST® Thread Sealants, LOCTITE Vibra-Seal®, and LOCTITE Anti-Seize products.

Features:

- Applicator is fed directly from a 50 ml tube, 250 ml tube or 1 liter bottle.
- A quick turn turret is equipped with cavities for 1⁄16, 1⁄8, 1⁄4, 3⁄8, 1⁄2, 3⁄4 and 1 in. male pipe threads.
- Up to 0.7 ml of product can be dispensed per shot.
- Adjustable dispense volume.
- Suggested settings for each diameter fitting are preprinted on unit.

Theory of Operation

A turret head with a cavity for each size of pipe thread is attached to the output of an air actuated, positive displacement pump. The operator presses a fitting down into the correct cavity. The downward motion of the turret depresses a switch that actuates the pump. A metered amount of material is dispensed onto the part.

TECHNICAL SPECIFICATIONS	
Air Input	Requires filtered (40 micron) lubricated air, 60 psi minimum
Product Viscosity	Medium to High
Turret Sizes	1⁄16, 1⁄8, 1⁄4, 3⁄8, 1⁄2, 3⁄4 and 1" (NPT)
Dimensions	7.5" W x 12.2" L *(Height with 50 ml tube = 14.4" / Height with 1 liter bottle = 16.7")*
Used to Dispense	LOCTITE 565™, 567™ and Vibra-Seal® Thread Sealants, and LOCTITE brand Anti-Seize products
Package Types & Sizes	50 ml tube / 250 ml tube / 1 liter bottle
Parts Included	(1) LOCTITE Dial-A-Seal® Applicator (1) Stand for 1 Liter Bottle (1) 1 Liter Bottle and Cap (1) 50 ml Tube Adapter (1) Empty 50 ml Tube with Dispense Cap (2) Elbow Fittings (1) Tube Vent (1) Feed Tube (1) Tube Adapter (1) Manual
Additional Information	For Spare Parts & Accessories, see pages 69-70.

LOCTITE® High Precision Dispense Monitoring System

Item Number: 97211 (High Precision Dispense Monitor)

The LOCTITE® High Precision Dispense Monitoring System provides effective adhesive dispense monitoring. Pressure changes due to air entrapment, broken or blocked nozzles, or substrate contact can be effectively monitored by the system with a high degree of accuracy and repeatability. All out-of-tolerance dispense cycles result in error messages being displayed on the controller display.

Features:

(When integrated with the LOCTITE Dual-Channel Controller – item 97152)

Effective dispense monitoring to detect:

- Air bubbles.
- Clogged or broken dispense tips, or tip-substrate contact.
- Changes in amount of adhesive dispensed.
- Three pre-set dispense tolerances or customizable from 1 to 99%.
- PLC or PC integration to provide SPC data analysis.

TECHNICAL SPECIFICATIONS	
Power Input	24 VDC
Power Output	1 to 10 VDC
Dimensions	3" W x 5.5" H x 2.25" D
Weight	0.5 lbs.

Additional Accessories Sold Separately

98009 – LOCTITE Light Cure Dispense Valve	98013 – LOCTITE Cyanoacrylate Dispense Valve	97113 / 97114 – LOCTITE Stationary Applicator Valves
982726 / 982727– LOCTITE Bond-A-Matic® Reservoirs	982720 / 982723 – LOCTITE Bond-A-Matic® Reservoirs with Low Level Sensors	1174337 – LOCTITE Micro Dispense Scale

Required System Components Sold Separately	
97152 – LOCTITE Dual-Channel Automatic Controller	Provides dispense control and tolerance monitoring
97295 – Valve Adapter	Valve body adapter for LOCTITE dispense valves (Item 97113 / 97114)
97200 – Valve Adapter	Valve body adapter for LOCTITE dispense valves (Item 98009 / 98013)
8965008 – Sensor and Cable	Pressure sensor and cable for dispense valve interface
97211 – Signal Amplifier	1 required with each valve

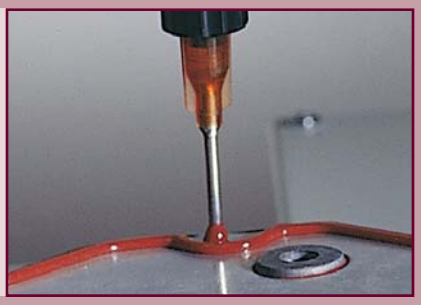
98009 – LOCTITE Light Cure Dispense Valve

97152 – LOCTITE Dual-Channel Automatic Controller

97211 – LOCTITE High Precision Dispense Monitoring System

Dispense Accessories

Henkel offers a comprehensive line of LOCTITE® brand dispense tips, static mix nozzles and syringe barrel components. High precision stainless steel, tapered polyethylene and flexible polypropylene tips all feature a positive locking, helical thread design to ensure the tip will stay intact during the toughest applications. A wide variety of static mix nozzles are available to meet your two-part adhesive dispensing needs. High-quality syringe barrels and components will ensure consistent single component adhesive dispensing needs are met.



High Precision Stainless Steel Dispense Tips

¼ Inch Stainless Steel Tips Helical Thread

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
830704	830703	Olive	14
98196	98197	Green	18
98198	98199	Pink	20
98200	98201	Purple	21
1585606	1585607	Blue	22
1635176	1635175	Orange	23
98624	98625	Red	25
98626	98627	Clear	27
98628	98629	Lavender	30
98114	98115	Yellow	32

1½ Inch Stainless Steel Tips Helical Thread

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98163	98164	White	14
98165	98166	Amber	15
98167	98168	Green	18
98169	98170	Pink	20
98171	98172	Purple	21
98173	98174	Blue	22
98175	98176	Orange	23
98177	98178	Red	25
98179	98180	Light Grey	27

½ Inch Stainless Steel Tips Helical Thread

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
1244444	—	Olive	14
98396	98397	Amber	15
98398	98399	Green	18
98400	98401	Pink	20
98424	98425	Purple	21
98402	98403	Blue	22
98611	98612	Orange	23
98404	98405	Red	25
1255059	1255058	Light Grey	27
1256848	1256497	Lavender	30

45° by ½ Inch Stainless Steel Tips Helical Thread

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98236	98237	White	14
98240	98241	Amber	15
98244	98245	Green	18
98248	98249	Pink	20
98252	98253	Purple	21
98256	98257	Blue	22
98260	98261	Orange	23
98264	98265	Red	25
98268	98269	Light Grey	27

1 Inch Stainless Steel Tips Helical Thread

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98216	98217	White	14
98218	98219	Amber	15
98220	98221	Black	16
98222	98223	Green	18
98224	98225	Pink	20
98226	98227	Purple	21
98228	98229	Blue	22
98230	98231	Orange	23
98232	98233	Red	25
98234	98235	Light Grey	27

For additional information and the full line of equipment, visit **equipment.loctite.com.**

Tapered Dispense Tips

1¼ Inch Polyethylene Tapered Tips Helical Thread and UV Light Block Additive

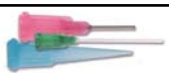
50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98385	98386	White	14
98387	98388	Grey	16
98389	98390	Green	18
98391	98392	Pink	20
98393	98394	Blue	22
98658*	98659*	Red	25
98660*	98661*	Clear	27

* New smaller gauge sizes.

Flexible Dispense Tips

1½ Inch Polypropylene Tips Helical Thread

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
97229	98069	Amber	15
97230	98070	Green	18
97231	98071	Pink	20
97232	98082	Red	25

PRODUCT	Item Numbers	Description
	1146079 / 1146078	SS, PTFE-Lined, 25 Gauge (50/1,000 pack)
	1244443	SS, PTFE-Lined, 21 Gauge (50 pack)
	97233	Luer-Lok Adapter Kit, 20 Luer-Loks and 5 Adapters
	97248 / 98499	Tip Caps (50/1,000 pack)
	97261 / 98074	High Density Polyethylene, 15 Gauge, White (50/1,000 pack)
	97262	2 each of a variety of Helical Threaded ½" Stainless Steel Tips, Tapered Tips and Polypropylene Tips
	98652	Light-blocking Shield for Dispense Tips (10 pack)
	998390	Vari-Drop™ Applicator Brushes (10 pack)

Cartridge Accessories

PRODUCT	Item Number	Description
	98446	Roller Assembly 1" wide band
	98448	Roller Assembly 2" wide band
	98447	Replacement Rollers 1" wide (3 pack)
	98449	Replacement Rollers 2" wide (3 pack)
	98610	¾" wide x ⅜" NPT Dispense Nozzle (10 pack)
	1044246	Aero Nozzle for silicones in aerosol cans (10 pack)
	98128	Cartridge Dispense Tip: ¼" male Semco Thread (10 pack)
	98371	Cartridge-Needle Adapter: (Female Luer x ¼" male Semco Thread) Luer-Lok adapter for dispense needle attachment (5 pack)
	1147763	Cartridge-Dispense Valve Adapter Assembly Fischbach Thread x ¼" male NPT

General-Purpose Dispense Tips

½ Inch Stainless Steel Tips

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98208	98209	Olive	14
97225	98065	Amber	15
97226	98066	Green	18
97227	98067	Pink	20
98210	98211	Purple	21
98100	98080	Blue	22
98212	98213	Orange	23
97228	98068	Red	25
98214	98215	Clear	27

Check out our new and improved General-Purpose dispense tips. Now with helical threads and secure plastic box containers.

General-Purpose Tapered Dispense Tips

1¼ Inch Polyethylene Tapered Tips

50 Pack Item Number	1,000 Pack Item Number	Hub Color	Gauge
98272	98273	Tan	14
97221	98061	Grey	16
97222	98062	Green	18
97223	98063	Pink	20
97224	98064	Blue	22

Additional Dispense Tips & Accessories

LOCTITE® Showcase Needle Variety Kit

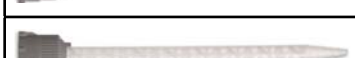
Item Number: 98439

This kit contains five each of an assortment of high precision Stainless Steel Tips in various lengths and gauges. Tapered and Flexible Dispense Tips are also included. All Dispense Tips have helical thread Luer-Lok hubs for reliable locking.

Cartridge Accessories

PRODUCT	Item Number	Description
	97215	Cartridge-Syringe Adapter: ¼" Semco Thread x Female Luer, used for downloading
	98181	Cartridge-Tube Fitting Adapter: (¼" FNPT x ¼" male Semco Thread) used for connecting tube fittings to cartridges (984832 or 984833 also required and sold separately) (3 pack)
	984832	Tube Fitting: ¼" male NPT x ¼" feed tube (10 pack)
	982644	Cartridge Adapter: SS, (1/4" FNPT x ¼" female Fischbach Thread), used for connecting tube fittings
	1045339	Cartridge-Needle Adapter: ¼" NPT Thread x Female Luer - shown with 982644 for ¼" Fischbach, for needle attachment (5 pack)
	1044247	Cartridge-Syringe Adapter: ¼" MNPT x Female Luer shown with 982644 for ¼" Fischbach, used for downloading (5 pack)

LOCTITE® Brand Static Mix Nozzles & Accessories

PRODUCT	Item Number	Package Quantity	Description
MIX NOZZLES FOR 50 ML DUAL (A STYLE) CARTRIDGES			
	778273 1405182	10 5,000	50 ml Square Mix Nozzle, Luer/Stepped Combo Tip, 3.25" overall length, 5.3 mm inner dimension, 16 elements; 1:1, 2:1 mix ratios.
	720227 826190	10 1,000	50 ml Square Mix Nozzle, Luer/Stepped Combo Tip, 4.5" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1, 4:1 mix ratios.
	98622 983509	10 2,000	50 ml Mix Nozzle, Slip-Luer, 5.9" overall length, 0.25" inner diameter, 20 elements; 1:1, 2:1 and 4:1 mix ratios. Lowest Cost 50 ml Nozzle
	98623 98364	10 2,000	50 ml Mix Nozzle, Stepped Tip-Luer, 5.9" overall length, 0.25" inner diameter, 20 elements; 1:1, 2:1 and 4:1 mix ratios. Lowest Cost 50 ml Nozzle
	720225	10	50 ml Mix Nozzle, Luer Tip, 6.0" overall length, 6.35 mm inner diameter, 21 elements; 1:1, 2:1, 4:1 mix ratios.
	720230 1116241	10 2,500	50 ml Mix Nozzle, Stepped Tip, 6.0" overall length, 6.35 mm inner diameter, 21 elements; 1:1, 2:1, 4:1 mix ratios.
	1145743 1143355	10 2,000	50 ml Mix Nozzle with Integral Needle Adapter, 5.9" overall length, 6.35 mm inner diameter, 20 elements; 1:1, 2:1 mix ratios.
	1259190	10	50 ml Round Mix Nozzle, Luer Tip, 4.7 mm inner diameter, 3.3" long, 16 elements; 1:1, 2:1 mix ratios.
	1334299	100	50 ml Mix Nozzle, Taper Tip, 3.0 mm inner diameter, 17 elements; 1:1, 2:1 – A Cartridges.
MIX NOZZLES FOR 50 ML DUAL (B & S STYLES) CARTRIDGES			
	1573156 1573154	10 1,000	50 ml Square Mix Nozzle, Taper Tip, 3.6" overall length, 5.3 mm inner dimension, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573153 1573151	10 1,000	50 ml Square Mix Nozzle, Taper Tip, 4.8" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573141 1573142	10 1,000	50 ml Square Mix Nozzle, Taper Tip, 4.8" overall length, 5.3 mm inner dimension, 24 elements; 4:1, 10:1 mix ratios – B + S Cartridges.
	1197606	10	50 ml Mix Nozzle, Taper Tip, 2.4" overall length, 2.5 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1434516	5	50 ml CA Mix Nozzle, Taper Tip, 2.4" overall length, 2.5 mm inner diameter, 16 elements; 4:1, 10:1 mix ratios – B + S Cartridges.
	1440017 1826921	100 10	50 ml Mix Nozzle, Taper Tip, 3.0" overall length, 3.2 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1329200	100	50 ml Mix Nozzle, Taper Tip, 3.0" overall length, 3.2 mm inner diameter, 16 elements; 4:1, 10:1 mix ratio – B + S Cartridges.
	1440018	100	50 ml Mix Nozzle, Taper Tip, 3.8" overall length, 4.2 mm inner diameter, 16 elements; 4:1, 10:1 mix ratios – B + S Cartridges.
	1573146 1573145	10 1,000	50 ml Mix Nozzle, Stepped Tip, 4.4" overall length, 5.4 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573144 1573143	10 1,000	50 ml Mix Nozzle, Stepped Tip, 5.2" overall length, 6.5 mm inner diameter, 16 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1573149 1573147	10 1,000	50 ml Mix Nozzle, Stepped Tip, 6.2" overall length, 6.5 mm inner diameter, 20 elements; 1:1, 2:1 mix ratios – B Cartridges.
	1034575	10	50 ml Mix Nozzle, Stepped Tip, 6.2" Overall Length, 6.5 mm inner diameter, 20 elements; 4:1, 10:1 mix ratio – B & S Cartridges.

LOCTITE® Brand Static Mix Nozzles & Accessories (Continued)

PRODUCT	Item Number	Package Quantity	Description
MIX NOZZLES FOR 200 ML & 400 ML DUAL (C STYLE) CARTRIDGES			
	606052 804261	10 1,500	200/400 ml Square Mix Nozzle, Luer/Stepped Combo Tip, 5.0" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1, 4:1 mix ratios.
	720226 848088	10 1,000	200/400 ml Square Mix Nozzle, Stepped Tip, 5.1" overall length, 7.5 mm inner dimension, 24 elements; 1:1; 2:1 mix ratios.
	874905 875472	10 650	200/400 ml Square Mix Nozzle, Threaded Bell End, 114.5 mm inner dimension, 187 mm overall length, 24 elements; 1:1, 2:1 mix ratios.
	720173 1053262	10 2,000	200/400 ml Mix Nozzle, Stepped Tip, 7.3" overall length, 6.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	720174 720222	10 1,500	200/400 ml Mix Nozzle, Stepped Tip, 8.8" overall length, 8 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	720177	10	200/400 ml Mix Nozzle, Stepped Tip, 10.9" overall length, 10 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	773794	50	200/400 ml Mix Nozzle, Stepped Tip, 7.4" overall length, 0.188" inner diameter, 32 elements; 1:1, 2:1 and 4:1 mix ratios.
	989518	10	200/400 ml Mix Nozzle, Stepped Tip, 9.0" overall length, 0.188" inner diameter, 48 elements; 1:1, 2:1 and 4:1 mix ratios.
	918088	10	200/400 ml Mix Nozzle, Luer Tip, Slip Luer, 9.5" overall length, 0.25" inner diameter, 32 elements; 1:1 and 2:1 mix ratios.
	1032026 1098256	10 1,200	200/400 ml Mix Nozzle, 11.3" overall length, 8 mm inner diameter, 32 elements; 1:1, 2:1 mix ratios.
	98672	10	200/400 ml Mix Nozzle, Stepped Tip, 14.2" overall length, 9.3 mm inner diameter, 40 elements; 1:1, 2:1 mix ratios.
	98367	1,000	200/400 ml Mix Nozzle, Snap Tip, 9.3" overall length, 9.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios.
	243335	6	200/400 ml Mix Nozzle, Stepped Tip, 9.1" overall length, 13 mm inner diameter, 18 elements; 1:1, 2:1 mix ratios – Rapid Rubber.
MIX NOZZLES FOR HIGH PRESSURE METER MIX			
	930705	1,000	200/400 ml Mix Nozzle, Stepped Tip, 10.9" overall length, 10 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios. 15.9 mm bell mouth.
	2210213	1,000	200/400 ml Mix Nozzle, Stepped Tip, 10.9" overall length, 10 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios. 16.7 mm bell mouth.

LOCTITE® Brand Static Mix Nozzles & Accessories (Continued)

PRODUCT	Item Number	Package Quantity	Description
MIX NOZZLES FOR 200 ML & 400 ML DUAL (F STYLE) CARTRIDGES			
	1573130 1573139	10 1,000	200/400 ml Square Mix Nozzle, Taper Tip, 5.2" overall length, 5.3 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573133 1573140	10 1,000	200/400 ml Square Mix Nozzle, Stepped Tip, 5.4" overall length, 7 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573132 1573134	10 1,000	200/400 ml Square Mix Nozzle, Stepped Tip, 7.1" overall length, 10.7 mm inner dimension, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573135 1573131	10 1,000	200/400 ml Mix Nozzle, Stepped Tip, 7.6" overall length, 6.3 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1573138 1573136	10 1,000	200/400 ml Mix Nozzle, Stepped Tip, 9.2" overall length, 8 mm inner diameter, 24 elements; 1:1, 2:1 mix ratios – F Cartridges.
	1084255	10	200/400/490 ml Mix Nozzle, Stepped Tip, 9.2" overall length, 8 mm inner diameter, 24 elements; 4:1, 10:1 mix ratios – F Cartridges.
	1084092 1084093	10 900	200/400/490 ml Mix Nozzle, Stepped Tip, 11.2" overall length, 10 mm inner diameter, 24 elements; 4:1, 10:1 mix ratios – F Cartridges.
MIX NOZZLES FOR 300 ML SINGLE AXIS DUAL CARTRIDGES			
	1100962	3	300 ml Single-Axis Cartridge Mix Nozzle, Threaded Tip, 10" overall length, 11.2 mm inner diameter; 20 elements.
	1100963	3	300 ml Single-Axis Cartridge Mix Nozzle, Threaded Tip, 15.3" overall length, 14.3 mm inner diameter; 19 elements.
SPRAYABLE CERAMIC MIX NOZZLES			
	1248606	10	200/400 ml Spray Tip Mix Nozzle, 0.25" inner diameter, 24 elements for use with sprayable ceramic materials.
MIX NOZZLE ADAPTERS			
	720175 970655	10 2,000	Luer-Lok Adapter for 6 mm and 8 mm Stepped Tip Mix Nozzles, allows for Dispense Needle Attachment (10 pack). Mix Nozzles and Dispense Needles sold separately.

LOCTITE® Brand Syringe Accessories

PRODUCT	Item Number	Description	Contents
	98656 98657 97208 97245	3 ml Syringe Air Line Adapter 5 ml Syringe Air Line Adapter 10 ml Syringe Air Line Adapter 30 ml and 55 ml Syringe Air Line Adapter	2 Air Line Adapters – Common to all part numbers (Syringe Barrel sold separately)
	984650	Air Line Filter for Syringe Dispensing to prevent product back-flow	1 Filter Assembly with 2 Hose Crimps
	97216	10 ml Syringe Starter Kit	5 Caps 5 Pistons 4 Clear Barrels 1 Black Barrel 5 Tips 1 Air Line Adapter
	97294	30 ml Syringe Starter Kit	
	98416	55 ml Syringe Starter Kit	
	97207	10 ml Clear Syringe Barrel Kit	20 Barrel Caps, 40 Pistons, 40 Barrels, 40 Barrel Tips
	97244	30 ml Clear Syringe Barrel Kit	10 Barrel Caps, 20 Pistons, 20 Barrels, 20 Barrel Tips
	98314	55 ml Clear Syringe Barrel Kit	5 Barrel Caps, 10 Pistons, 10 Barrels, 10 Barrel Tips
	97263	10 ml Black Syringe Barrel Kit for UV Adhesives	20 Barrel Caps, 40 Pistons, 40 Barrels, 40 Barrel Tips
	97264	30 ml Black Syringe Barrel Kit for UV Adhesives	10 Barrel Caps, 20 Pistons, 20 Barrels, 20 Barrel Tips
	98315	55 ml Black Syringe Barrel Kit for UV Adhesives	5 Barrel Caps, 10 Pistons, 10 Barrels, 10 Barrel Tips
	Various	Clear or Black 3, 5, 10, 30 and 55 ml Piston/ Syringe Combination Packages	See page 70 for Syringe and Piston options and item numbers.
	Various	Dark Amber Syringe and Piston options	Available upon request. Please contact your LOCTITE Sales Representative or contact us at equipment.loctite.com.
	Various	LOCTITE Manual Syringe Kits	Each kit contains Plunger, Stopper and Clear Barrel, unassembled. See page 70 for Syringe and Piston options and item numbers.
	98501	LOCTITE Applicator Holder for 10 ml, 30 ml and 55 ml Syringe Barrels (Red)	1 Holder (Syringe Barrel and Air Line Adapter sold separately)

LOCTITE® Brand Syringe Accessories (Continued)

PRODUCT		Accessory Item Number	Description	Package Quantity
LOCTITE Pneumatic Syringe Barrel and Piston Kits (Dark Amber Syringes are also available in the same packages. Call 860.571.5174 for special orders.)	Pneumatic Syringe Barrel and Piston	98479	3 ml Syringe Barrel and Piston, Natural	50
		98480	3 ml Syringe Barrel and Piston, Natural	1,000
		98481	3 ml Syringe Barrel and Piston, Black	50
		98482	3 ml Syringe Barrel and Piston, Black	1,000
		98483	5 ml Syringe Barrel and Piston, Natural	50
		98484	5 ml Syringe Barrel and Piston, Natural	1,000
		98485	5 ml Syringe Barrel and Piston, Black	50
		98486	5 ml Syringe Barrel and Piston, Black	1,000
		98487	10 ml Syringe Barrel and Piston, Natural	50
		98488	10 ml Syringe Barrel and Piston, Natural	1,000
		98489	10 ml Syringe Barrel and Piston, Black	50
		98490	10 ml Syringe Barrel and Piston, Black	1,000
		98491	30 ml Syringe Barrel and Piston, Natural	50
		98492	30 ml Syringe Barrel and Piston, Natural	500
		98493	30 ml Syringe Barrel and Piston, Black	50
		98494	30 ml Syringe Barrel and Piston, Black	500
		98495	55 ml Syringe Barrel and Piston, Natural	250
		98496	55 ml Syringe Barrel and Piston, Natural	50
		98497	55 ml Syringe Barrel and Piston, Black	50
		98498	55 ml Syringe Barrel and Piston, Black	250
	Pneumatic Syringe Barrel Only	98655	3 ml Syringe Barrel, Black	1,000
		98557	3 ml Syringe Barrel, Natural	1,000
		98576	5 ml Syringe Barrel, Black	1,000
		98559	5 ml Syringe Barrel, Natural	1,000
		98578	10 ml Syringe Barrel, Black	1,000
		98561	10 ml Syringe Barrel, Natural	1,000
		98122	30 ml Syringe Barrel, Black	500
		98563	30 ml Syringe Barrel, Natural	500
		98581	55 ml Syringe Barrel, Black	250
		98565	55 ml Syringe Barrel, Natural	250
	Pneumatic Pistons Only	98125	3 ml Syringe Piston	1,000
		98584	5 ml Syringe Piston	1,000
		98127	10 ml Syringe Piston	1,000
		98587	30 / 55 ml Syringe Piston	1,000
LOCTITE Manual Syringe Kits Each kit contains a plunger, stopper and barrel in the quantity indicated.		1176432	3 ml Clear Manual Syringe Kit	1,000
		1180638	6 ml Clear Manual Syringe Kit	10
		1176431	6 ml Clear Manual Syringe Kit	1,000
		1180636	35 ml Clear Manual Syringe Kit	10
		1180634	35 ml Clear Manual Syringe Kit	500

Dispense Spare Parts

LOCTITE® Brand Dispense Spare Parts

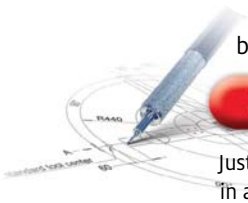
PARENT PRODUCT	Accessory Item Number	Description	Package Quantity
LOCTITE Tubing	97970	⅜" Black PTFE-Lined Feed Tube	33 ft.
	97972	¼" Black PTFE-Lined Feed Tube	33 ft.
	981821	¼" Clear Polyethylene Feed Tube	33 ft.
	981866	⅜" Clear Polyethylene Feed Tube	33 ft.
	981994	¼" Clear Nylon Feed Tube for Pump-A-Bead™ II	33 ft.
	984688	Silicone Tubing for Dispense Valve Purging (10 Pack)	1 ft.
986300 – LOCTITE Poppet Valve, Acetal Copolymer Body	986025	Nozzle: 0.025" diameter	1
	986035	Nozzle: 0.035" diameter	1
	986060	Nozzle: 0.060" diameter	1
	986301	Valve Rebuild Kit	1

Robot Dispense Systems

Available in both Benchtop and SCARA model types, LOCTITE® brand robots are designed to simplify the dispensing of adhesives and sealants onto complex surface configurations. They allow manufacturers to repeatedly and reliably dispense patterns of liquid material on a programmed basis, resulting in improved process efficiencies, minimal material waste and reduced manufacturing costs.

Robot Types

Benchtop robots are beam or gantry style robots designed to be placed on a bench. These robots carry one or more parts that are captured in a fixture that is mounted on the work surface. Motion in the X axis is achieved by moving the work surface forward and backward. The Y and Z axes are achieved by moving the tool head left and right, and up and down, respectively, on the beam or gantry. When applicable, the fourth axis (R axis) is achieved by rotating the mounting shaft that protrudes from the tool head.



For detailed dimension drawings of all benchtop robots, please visit the web at:

equipment.loctite.com

Just search on the part number you are interested in and scroll down to the product documentation.

SCARA is an acronym for Selective Compliance Assembly Robot Arm. The robot is a multi-jointed arm that moves above the work surface. It must be mounted near the work surface by the user. The X and Y axes are achieved by changing the angles of the two arms. This creates a kidney-shaped dispensing area that is approximately 880 mm wide and 440 mm tall at the center. The Z axis is achieved by moving both arms up and down. On the 4-axis models, the R axis is achieved by rotating the mounting shaft that protrudes from the end of the arm.

PRODUCT		LOCTITE EQ RB40 200D BENCHTOP ROBOT	LOCTITE EQ RB40 300D BENCHTOP ROBOT	LOCTITE EQ RB40 400D BENCHTOP ROBOT	LOCTITE EQ RB40 500D BENCHTOP ROBOT	LOCTITE EQ RB20 500D DUAL BENCHTOP ROBOT	LOCTITE EQ RB15 200D GANTRY ROBOT	LOCTITE S440 SCARA-N ROBOT
ITEM NUMBER *(110 VOLT SYSTEMS)*	3-AXIS	2104801	2104799	2104795	2103369	2112252	2112253	1008351
	4-AXIS	–	–	–	–	N/A	N/A	1008338
TYPE		Benchtop	Benchtop	Benchtop	Benchtop	Benchtop	Gantry	SCARA
RANGE OF OPERATION	X AXIS	200 mm	300 mm	400 mm	500 mm	(2x) 250 mm	200 mm	Arm 1: 260 mm ± 90°
	Y AXIS	200 mm	320 mm	400 mm	500 mm	250 mm	200 mm	Arm 2: 180 mm ± 150°
	Z AXIS	50 mm	100 mm	150 mm	100 mm	500 mm	50 mm	100 mm
	R AXIS	–	–	–	–	N/A	N/A	± 360°
PORTABLE WEIGHT LIMITATIONS	WORK SURFACE	5.0 kg	10.0 kg	10.0 kg	10.0 kg	10.0 kg	N/A	N/A
	TOOL HEAD	2.0 kg	5.0 kg	5.0 kg	5.0 kg	5.0 kg	2.0 kg	5.0 kg
SPEED	PTP (X, Y) MAXIMUM	400 mm/s	600 mm/s	600 mm/s	600 mm/s	600 mm/s	400 mm/s	1500 mm/s
	PTP (Z) MAXIMUM	200 mm/s	320 mm/s	320 mm/s	320 mm/s	300 mm/s	200 mm/s	320 mm/s
	PTP (R)	–	–	–	–	N/A	N/A	10 to 1,000 °/s
ADDITIONAL INFORMATION		Please visit equipment.loctite.com for detailed drawings of all benchtop robots. Just search for the item number that you are interested in and scroll down to the product documentation.						

LOCTITE® EQ RB40 200D Benchtop Robot

Item Number: 2104801

The LOCTITE® EQ RB40 Series Benchtop Robot has a 200 mm by 200 mm range of operation. Eight different configurations, as shown in the chart, are available to meet your process requirements. This unit is fully compliant with Robotics Industry Association (RIA) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.

Features:

- Designed for adhesive dispensing.
- Independent dispense On/Off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial setup. Great for purging of two-part materials that have a very short pot life. No special programming required.
- Integrated solution – plug and play accessories.
- Software utility program compensates for positional offsets when dispense needle tips or barrels are changed.
- Teach Pendant program storage capabilities allow dispense program to be easily transferred from robot to robot.
- Over-speed error indicator prevents robot from traveling too fast during the execution of the program.
- 100 programs, 4,000 points memory per program, compact flash card.
- Brush area function command allows the tip to "paint" a specifically designed area.
- Shortcut keys for common tasks.
- No programming experience required.

Integration Accessories

- EQ RB40 Teach Pendant – 2268727

Your LOCTITE 200D series includes one dispensing cable so you can hook up to any one of our following dispensing systems:

- LOCTITE Solenoid Valve Module 12 V – 1328354.
- LOCTITE Integrated Semiautomatic Dispensers – 1390321, 1390322.
- Precision Syringe Dispenser – 97006.
- Digital Syringe Dispenser – 883976 (Adapter Cable, item 1053227, also required).
- LOCTITE Posi-Link™ Volumetric Syringe and Dual Cartridge Systems.

For additional integration, including low level signal operation, use:

- LOCTITE D Series Interface Cable – 1329222.
  - 25-pin male "D shell" electrical connector that connects into rear of robot.
  - 3-pin female round connector that connects into robot.
  - 9-pin male "D shell" electrical connector that connects into Dispensing Unit or Solenoid Valve Module.
- LOCTITE EQ ACCE D-Series Junction Box - 2182205.
- LOCTITE Solenoid Valve Module for pneumatic control by the robot – 988000.

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Number of Controllable Axes		3
Range of Operation	X Axis	200 mm
	Y Axis	200 mm
	Z Axis	50 mm
Portable Weight	Work Surface	5.0 kg
	Tool Head	2.0 kg
Speed	PTP (X,Y) Max.	400 mm/s
	PTP (Z)	200 mm/s
Repeatability Accuracy	X, Y, Z Axis	± 0.04 mm
CPU		32 bit
Control Method		Point-to-Point or Continuous Path
Drive Method		3-Phase Stepping Motor
I/O		8
Program Capacity		100 Programs
Data Memory Capacity		4,000 Points/Program
Dimensions	Width, 3-Axis	350 mm
	Depth	330 mm
	Height, 3-Axis	490 mm
Weight		18 kg
Power Source – Auto Switching		95-250 VAC; 50/60 Hz
Power Consumption		150 VA
Working Environment	Temperature	0°C to 40°C
	Humidity	20% to 90% RH
Parts Included	(1) Robot (1) Power Cord (1) Dispense Cable (1) External Interlock Bypass Connector (1) CD-ROM Manual (1) Teach Pendant Cable (1) 30-55 ml Syringe Bracket and Mounting Screws	
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	

LOCTITE® EQ RB40 300D Benchtop Robot

Item Number: 2104799

The LOCTITE® EQ RB40 Series Benchtop Robot has a 300 mm by 320 mm range of operation. Eight different configurations, as shown in the chart, are available to meet your process requirements. This unit is fully compliant with Robotics Industry Association (RIA) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.

Features:

- Designed for adhesive dispensing.
- Independent dispense On/Off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial setup. Great for purging of two-part materials that have a very short pot life. No special programming required.
- Integrated solution – plug and play accessories.
- Software utility program compensates for positional offsets when dispense needle tips or barrels are changed.
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from robot to robot.
- Over-speed error indicator prevents robot from traveling too fast during the execution of the program.
- 100 programs, 4,000 points memory per program, compact flash card.
- Brush area function command allows the tip to "paint" a specifically designed area.
- Shortcut keys for common tasks.
- No programming experience required.

Integration Accessories

- EQ RB40 Teach Pendant – 2268727

Your LOCTITE 300D series includes one dispensing cable so you can hook up to any one of our following dispensing systems:

- LOCTITE Solenoid Valve Module 24 V – 988000.
- LOCTITE Integrated Semiautomatic Dispensers – 1390321, 1390322.
- Precision Syringe Dispenser – 97006.
- Digital Syringe Dispenser – 883976 (Adapter cable, 1053227, also required).
- LOCTITE Posi-Link™ Volumetric Syringe and Dual Cartridge Systems.

For additional integration, including low level signal operation, use:

- LOCTITE D Series Interface Cable – 1329222
  - 25-pin male "D shell" electrical connector that connects into rear of robot.
  - 3-pin female round connector that connects into robot.
  - 9-pin male "D shell" electrical connector that connects into Dispensing Unit or Solenoid Valve Module.
- LOCTITE EQ ACCE D-Series Junction Box – 2182205.
- LOCTITE Solenoid Valve Module for pneumatic control by the robot – 988000.
- LOCTITE EQ ACCE D-Series Robot Software – 2148218.
- LOCTITE EQ BB30 Robot Target Camera – 1912406.

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Number of Controllable Axes		3
Range of Operation	X Axis	300 mm
	Y Axis	300 mm
	Z Axis	100 mm
Portable Weight	Work Surface	10.0 kg
	Tool Head	5.0 kg
Speed	PTP (X,Y) Max.	600 mm/s
	PTP (Z) Max.	320 mm/s
Repeatability Accuracy	X, Y, Z Axis	± 0.01 mm
CPU		32 bit
Control Method		Point-to-Point or Continuous Path
Drive Method		3-Phase Stepping Motor
Program Capacity		100 Program
Data Memory Capacity		4,000 Points/Program
Dimensions	Width	485 mm
	Depth	500 mm
	Height, 3-Axis	600 mm
Weight		32 kg
Power Source – Auto Switching		95-250 VAC; 50/60 Hz
Power Consumption		150 VA
Working Environment	Temperature	0°C to 40°C
	Humidity	20% to 90% RH
Parts Included	(1) Robot (1) Power Cord (1) Dispense Cable (1) External Interlock Bypass Connector (1) CD-ROM Manual (1) Teach Pendant Cable (1) 30–55 ml Syringe Bracket and Mounting Screws	
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	

LOCTITE® EQ RB40 400D Benchtop Robot

Item Number: 2104795

The LOCTITE® EQ RB40 Series Benchtop Robot has a 400 mm by 400 mm range of operation. Eight different configurations, as shown in the chart, are available to meet your process requirements. This unit is fully compliant with Robotics Industry Association (RIA) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.

Features:

- Designed for adhesive dispensing.
- Independent dispense On/Off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial setup. Great for purging of two-part materials that have a very short pot life. No special programming required.
- Integrated solution – plug and play accessories.
- Software utility program compensates for positional offsets when dispense needle tips or barrels are changed.
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from robot to robot.
- Over-speed error indicator prevents robot from traveling too fast during the execution of the program.
- 100 programs, 4,000 points memory per program, compact flash card.
- Brush area function command allows the tip to "paint" a specifically designed area.
- Shortcut keys for common tasks.
- No programming experience required.

Integration Accessories

- EQ RB40 Teach Pendant – 2268727

Your LOCTITE 400D series includes one dispensing cable so you can hook up to any one of our following dispensing systems:

- LOCTITE Solenoid Valve Module 24 V – 988000.
- LOCTITE Integrated Semiautomatic Dispensers – 1390321, 1390322.
- Precision Syringe Dispenser – 97006.
- Digital Syringe Dispenser – 883976 (Adapter cable, 1053227, also required).
- LOCTITE Posi-Link™ Volumetric Syringe and Dual Cartridge Systems.

For additional integration, including low level signal operation, use:

- LOCTITE D Series Interface Cable – 1329222
  - 25-pin male "D shell" electrical connector that connects into rear of robot.
  - 3-pin female round connector that connects into robot.
  - 9-pin male "D shell" electrical connector that connects into Dispensing Unit or Solenoid Valve Module.
- LOCTITE EQ ACCE D-Series Junction Box – 2182205.
- LOCTITE Solenoid Valve Module for pneumatic control by the robot – 988000.
- LOCTITE EQ ACCE D-Series Robot Software – 2148218.
- LOCTITE EQ BB30 Robot Target Camera – 1912406.

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Number of Controllable Axes		3
Range of Operation	X Axis	400 mm
	Y Axis	400 mm
	Z Axis	100 mm
Portable Weight	Work Surface	10.0 kg
	Tool Head	5.0 kg
Speed	PTP (X,Y) Max.	600 mm/s
	PTP (Z) Max.	320 mm/s
Repeatability Accuracy	X, Y, Z Axis	± 0.01 mm
CPU		32 bit
Control Method		Point-to-Point or Continuous Path
Drive Method		3-Phase Stepping Motor
I/O		8
Program Capacity		100 Programs
Data Memory Capacity		4,000 Points/Program
Dimensions	Width	584 mm
	Depth	600 mm
	Height	600 mm
Weight		40 kg
Power Source – Auto Switching		95-250 VAC; 50/60 Hz
Power Consumption		150 VA
Working Environment	Temperature	0°C to 40°C
	Humidity	20% to 90% RH
Parts Included	(1) Robot (1) Power Cord (1) Dispense Cable (1) External Interlock Bypass Connector (1) CD-ROM Manual (1) Teach Pendant Cable (1) 30–55 ml Syringe Bracket and Mounting Screws	
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	

LOCTITE® EQ RB40 500D Benchtop Robot

Item Number: 2103369

The LOCTITE® EQ RB40 Series Benchtop Robot has a 500 mm by 500 mm range of operation. Eight different configurations, as shown in the chart, are available to meet your process requirements. This unit is fully compliant with Robotics Industry Association (RIA) safety guidelines. Programming accessories, dispensing equipment, integration cables and mounting hardware are sold separately.

Features:

- Designed for adhesive dispensing.
- Independent dispense On/Off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial setup. Great for purging of two-part materials that have a very short pot life. No special programming required.
- Integrated solution – plug and play accessories.
- Software utility program compensates for positional offsets when dispense needle tips or barrels are changed.
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from robot to robot.
- Over-speed error indicator prevents robot from traveling too fast during the execution of the program.
- 100 programs, 4,000 points memory per program, compact flash card.
- Brush area function command allows the tip to "paint" a specifically designed area.
- Shortcut keys for common tasks.
- No programming experience required.

Integration Accessories

- EQ RB40 Teach Pendant – 2268727.

Your LOCTITE 500D series includes one dispensing cable so you can hook up to any one of our following dispensing systems:

- LOCTITE Solenoid Valve Module 24 V – 988000.
- LOCTITE Integrated Semiautomatic Dispensers – 1390321, 1390322.
- Precision Syringe Dispenser – 97006.
- Digital Syringe Dispenser – 883976 (Adapter cable, 1053227, also required).
- LOCTITE Posi-Link™ Volumetric Syringe and Dual Cartridge Systems.

For additional integration, including low level signal operation, use:

- LOCTITE D Series Interface Cable – 1329222
  - 25-pin male "D shell" electrical connector that connects into rear of robot.
  - 3-pin female round connector that connects into robot.
  - 9-pin male "D shell" electrical connector that connects into Dispensing Unit or Solenoid Valve Module.
- LOCTITE EQ ACCE D-Series Junction Box – 2182205.
- LOCTITE Solenoid Valve Module for pneumatic control by the robot – 988000.
- LOCTITE EQ ACCE D-Series Robot Software – 2148218.
- LOCTITE EQ BB30 Robot Target Camera – 1912406.

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Number of Controllable Axes		3 to 4
Range of Operation	X Axis	500 mm
	Y Axis	500 mm
	Z Axis	100 mm
Portable Weight	Work Surface	10.0 kg
	Tool Head	5.0 kg
Speed	PTP (X,Y)	600 mm/s
	PTP (Z)	320 mm/s
	CP (X,Y, Z)	0.1 to 800 mm/s
Repeatability Accuracy	X, Y, Z Axis	± 0.01 mm, 3 Sigma
CPU		32 bit
Control Method		Point-to-Point or Continuous Path
Drive Method		3-Phase Stepping Motor
I/O		8 Inputs / 8 Outputs
Program Capacity		100 Programs
Data Memory Capacity		4,000 Points
Dimensions	Width	685 mm
	Depth	701 mm
	Height, 3-Axis	599 mm
Weight		45 kg
Power Source – Auto Switching		95-132 VAC; 150 Watt 180-250 VAC; 150 Watt
Power Consumption		150 VA
Working Environment	Temperature	0°C to 40°C
	Humidity	20% to 90% RH
Parts Included	(1) Robot (1) Power Cord (1) Dispense Cable (1) External Interlock Bypass Connector (1) CD-ROM Manual (1) Teach Pendant Cable (1) 30–55 ml Syringe Bracket and Mounting Screws	
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	
Additional Accessories Sold Separately	988000 – Solenoid Valve Module for pneumatic control by the robot	

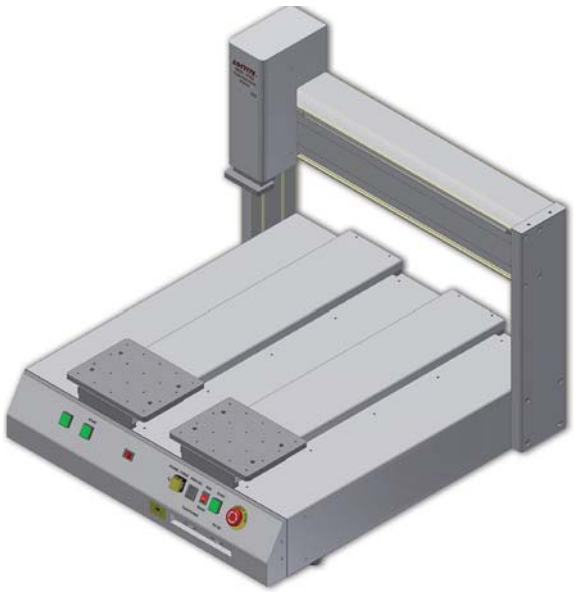
LOCTITE® EQ RB20 500D Dual Benchtop Robot

Item Number: 2112252

The LOCTITE® EQ RB20 500D Dual Benchtop Robot is identical to the existing LOCTITE 500D robot, except it has two independent working tables on the Y-axis for increased throughput. The range of operation is 500 mm by 500 mm by 100 mm (X-Y-Z).

Features:

- Two Y-axes, increases throughput.
- No downtime from loading and unloading.
- Designed for adhesive dispensing.
- Greater load capacity than a pair of 200D robots.
- Independent dispense On/Off purge control button on front panel allows adhesive to be purged from a dispense valve to prevent curing or for aiding initial setup. No special programming required. Useful for setup and purging of two-part materials that have a very short pot life.
- Needle tip calibration available.
- 100 programs, 4,000 points memory per program.
- Teach Pendant program storage capabilities allows dispense program to be easily transferred from robot to robot.
- Low-cost robot has 3-axis control and 120 VAC or 220 VAC operation with a 24 VDC output signal.
- A wide variety of mounting hardware is available; see page 80 80.



Programming

The robot uses a specially designed, multi-line Teach Pendant that allows for simple programming with user-friendly prompts. The Operating Manual provides step-by-step instructions for programming. No previous programming experience is required.

Integration Accessories (not included)

LOCTITE brand cables and junction boxes provide plug-and-play Integration solutions for a variety of LOCTITE dispensing systems.

2268727 Teach Pendant for 200D, 300D, 400D & 500D Benchtop Robots.

2182205 Robot I/O Junction Box for 200D, 300D, 400D & 500D Robots. Provides a convenient connection point between robots and up to 8 external devices including all LOCTITE dispensers, UV Wands, LOCTITE light curtains, LED cure systems, Posi-Link™ Volumetric Dispensing System. Allows multiple system integration simultaneously. This junction box accepts up to 8 inputs and 8 outputs, 24 VDC operation.

1569523 The Robot Needle Calibration Kit is designed to allow the user to quickly calibrate needle tip location after changeover. The Kit is designed to work with LOCTITE 24V D-Series Robots, which are equipped with software version H1.30 or higher.

1329222 Interface Cable for 200D, 300D, 400D & 500D Benchtop Robots.

988000 Solenoid Valve Module, 24 VDC operation for 200D, 300D, 400D and 500D General Purpose Benchtop Robots.

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Dimensions	Width	685 mm
	Depth	715 mm
	Height, 3-Axis	670 mm
Weight		70 kg
Load	Table	10.0 kg
	Z-Axis	5.0 kg
Maximum Speed	PTP (X,Y)	600 mm/s
	PTP (Z)	300 mm/s
Repeatability Accuracy	X, Y, Z Axis	±0.02 mm
Resolution	X, Y, Z Axis	0.02 mm
Data Memory Capacity		4,000 Points
Program Capacity		100 Programs
Program System		USB 2.0 Memory Stick
CPU		32 bit
Display		Teach Pendant LCD
Drive System/Stepping Motor		Micro Stepping 3-Phase
Motion Control		PTP & CP
Linear/Circular Interpolation		3 Axes
I/O Signals		8 Inputs / 8 Outputs
Teaching Method		Teach Pendant
External Interface		RS232
Power Supply		110~220 VAC 300W
Working Temperature		10°C to 40°C
Relative Humidity (no condensation)		20% to 90%
Parts Included	(1) Robot (1) Power Cord (1) Dispense Cable (1) External Interlock Bypass Connector (1) CD-ROM Manual (1) Teach Pendant Cable (1) 30–55 ml Syringe Bracket and Mounting Screws	
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	

LOCTITE® EQ RB15 200D Gantry Robot

Item Number: 2112253

The LOCTITE® EQ RB15 200D Gantry Robot has features and accessories that are custom tailored for adhesive dispensing processes. The gantry configuration makes it ideal for integration with automatic transfer lines and conveyors. It is compatible with a wide variety of LOCTITE dispense valves, reservoirs and curing lights, and can be easily integrated to other external devices or systems when used with a LOCTITE I-O Junction Box.

Features:

- Designed for adhesive dispensing.
- Compact design with remote controller configuration.
- Teach Pendant programmable with easy-to-use programming software. Shortcut keys for common tasks.
- All programs are stored on the Teach Pendant, which allows dispense programs to be easily transferred from Robot to Robot.
- Up to 100 programs can be stored on the Teach Pendant.
- Independent dispense On/Off purge button on the front panel allows adhesive to be purged from a dispense valve to prevent curing and aid in the initial setup. No special programming required. Useful for setup and purging of two-part materials that have a very short pot life.
- Easily integrates with the LOCTITE Needle Calibration Kit (Item Number 1569523) for precise dispense tip location.
- The LOCTITE I-O Junction Box (Item Number 2182205) can be installed together with automatic conveyors and other production equipment.
- A wide variety of mounting hardware is available; see page 80.

Integration Accessories (not included)

LOCTITE brand cables and junction boxes provide plug-and-play Integration solutions for a variety of LOCTITE dispensing systems.

2268727 Teach Pendant for 200D, 300D, 400D & 500D Benchtop Robots.

2182205 Robot I/O Junction Box for 200D, 300D, 400D & 500D Robots. Provides a convenient connection point between robots and up to 8 external devices including all LOCTITE dispensers, UV Wands, LOCTITE light curtains, LED cure systems, and the Posi-Link™ Volumetric Dispensing System. Allows multiple system integration simultaneously. This junction box accepts up to 8 inputs and 8 outputs, 24 VDC operation.

1569523 The Robot Needle Calibration Kit is designed to allow the user to quickly calibrate needle tip location after change over. The Kit is designed to work with LOCTITE 24V D-Series Robots, which are equipped with software version H1.30 or higher.

1329222 Interface Cable for 200D, 300D, 400D and 500D Benchtop Robots.

988000 Solenoid Valve Module, 24 VDC operation for 200D, 300D, 400D and 500D General Purpose Benchtop Robots.

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Working Area	Width	200 mm
	Depth	200 mm
	Height, 3-Axis	50 mm
Weight		16 kg
Load	Table	5.0 kg
	Z-Axis	2.0 kg
Maximum Speed	PTP (X,Y)	400 mm/s
	PTP (Z)	200 mm/s
Repeatability Accuracy	X, Y, Z Axis	±0.04 mm
Resolution	X, Y, Z Axis	0.02 mm
Data Memory Capacity		4,000 points
Program Capacity		100 programs
Program System		Compact Flash Card
Processor		32 bit
Display		Teach Pendant LCD
Drive System/Stepping Motor		Micro stepping 3-Phase
Motion Control		PTP & CP
Linear/Circular Interpolation		3 Axes
I/O Signals		8 Input / 8 Output
Teaching Method		Teach Pendant
External Interface		RS232
Power Supply		110~220 VAC 320W
Working Temperature		0°C to 40°C, 0°F to 104°F
Relative Humidity (no condensation)		20% to 90%
Dimensions (W x D x H mm)		250 x 300 x 130 Controller
		469 x 389 x 189 Robot
Parts Included	(1) Robot (1) Power Cord (1) Dispense Cable (1) External Interlock Bypass Connector (1) CD-ROM Manual (1) Teach Pendant Cable (1) 30–55 ml Syringe Bracket and Mounting Screws	
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	

LOCTITE® S440 SCARA-N Robot

The LOCTITE® S440 Series SCARA-N Robot provides maximum flexibility for complex dispensing applications. The robot features a multi-jointed arm that moves above the work surface. The robot dispensing area is a kidney-shaped area determined by the two arm lengths. Eight different configurations, as shown in the chart, are available to meet your process requirements. Programming accessories, dispensing equipment, cables and mounting hardware are sold separately.

Robot Configurations

Item Number	Description
1008351	SCARA-N, 440 mm, 3-axis, 110 V
1008340	SCARA-N, 440 mm, 3-axis, 110 V CE Rated
1008339	SCARA-N, 440 mm, 3-axis, 220 V
1008552	SCARA-N, 440 mm, 3-axis, 220 V CE Rated
1008338	SCARA-N, 440 mm, 4-axis, 110 V
1008337	SCARA-N, 440 mm, 4-axis, 110 V CE Rated
1008335	SCARA-N, 440 mm, 4-axis, 220 V CE Rated

Features:

- Integrated solution – plug and play.
- Low-cost operation and ownership.
- Compact size.
- Application-specific software.
- Teach Point programming.
- A 255-program, 30,000-point memory card.
- A wide variety of mounting hardware is available; see page 80.

Programming

Simple to program using either a multi-line backlit Teach Pendant with user-friendly prompts or external software. The program allows for continuous path motion and automatically interpolates any line or arc in all axes. The manual provides step-by-step instructions for programming the robot. No previous experience is required.

Programming Accessories

The operations box is required. The specially designed, easy-to-use Teach Pendant is the preferred device for programming and operating the robot. A laptop computer loaded with the Teach Point Software can also be used as an alternative.

987512 – Operations Box
989656 – LR-C Teach Point Software
1015106 – Teach Pendant

Integration Accessories

LOCTITE brand cables and junction boxes provide plug-and-play integration solutions for a variety of LOCTITE dispensing systems. Single- or multiple-systems' functionality can be easily accommodated.

98395 Interface Cable – SCARA Robots, 37 pin male D x multi. Use with all LOCTITE Robots **single dispenser** integration. Integrates LOCTITE Precision Syringe Dispenser (97006), Digital Syringe Dispenser (883976), Spray Controller (1406023), Integrated Semiautomatic Controllers (1390321 and 1390322), Benchtop Peristaltic Dispenser (2265279), and Posi-Link™ Controller (98377). Also, a separate cable is provided for integration with LOCTITE Robot Guarding Systems.

98549 Robot Interface Junction Box. Provides convenient connection point between robots and up to 12 external devices, including all LOCTITE dispensers, UV Wands, LED cure systems, and third-party solenoids, grippers, etc. The Junction Box accepts up to seven inputs and five outputs, device status indicator lights with a view window, and a 500 ma/24 VDC power supply for powering third-party devices.

Cable for Connection of the Junction Box to the SCARA Robot is provided with Robot Interface Junction Box (98549).

TECHNICAL SPECIFICATIONS		
Attribute		**Value**
Number of Controllable Axes		3 to 4
Range of Operation	X Axis	260 mm ± 90°
	Y Axis	180 mm ± 150°
	Z Axis	100 mm
	R Axis	± 360°
Portable Weight	Tool Head	5.0 kg
Speed	PTP (X,Y)	15 to 1,500 mm/s
	PTP (Z)	3.2 to 320 mm/s
	PTP (R)	1 to 1,000 °/s
	CP (X,Y, Z)	0.1 to 800 mm/s
Repeatability Accuracy	X, Y, Z Axis	± 0.01 mm
	R Axis	± 0.02°
CPU		32 Bit
Control Method		Point-to-Point or Continuous Path
Drive Method		5-Phase Stepping Motor
I/O		16 + 8 + Safety
Program Capacity		255 Points
Data Memory Capacity		30,000 Points
Dimensions	Width	290 mm
	Depth	773 mm
	Height	840 mm
Weight		41 kg
Power Source		110/220 VAC; 50/60 Hz
Power Consumption		200 VA
Working Environment	Temperature	0°C to 40°C
	Humidity	20% to 95% RH
Parts Included	(1) Power Cord (1) CD-ROM Manual	(1) Robot (1) I/O-S Short Plug
Additional Information	Extensive Mounting Hardware options listed on page 80. See equipment.loctite.com for detailed dimension drawings.	
Additional Accessories Sold Separately	988000 – Solenoid Valve Module for pneumatic control by the robot	

Dispense Stations

When a circular dispense pattern is required, LOCTITE® motion control systems offer robust performance at a lower cost than robotic dispense stations. They are simple to set up and operate, and their rugged construction makes them well-suited for harsh manufacturing environments.

In less complex applications and when a circular dispense pattern is required, these LOCTITE systems offer a more economical choice than full robotic dispense stations.

LOCTITE® EQ RB10 Rotary Dispense System

Item Number: 1635546

The LOCTITE EQ RB10 Rotary Dispense System is used for repetitive dispensing of circles or arcs. It is a fully integrated system that will directly control a cartridge or dispense valve and will operate any LOCTITE Syringe Dispensing System. The rugged all-metal construction is designed for tough manufacturing environments and the all-digital control panel simplifies setup.

Features:

- Integrated Solution – plug and play with LOCTITE Valves, Reservoirs and Syringe Systems.
- Digital control of rotation, dispense start and stop and delays.
- Adjustable height, position, angle of dispense and advance slide speed.
- Reservoir low-level interface with cycle interruption and display message.
- Part position sensing allows orientation of adhesive bead start and end.
- Threaded and non-threaded mounting holes for fixtures.
- Operator lockout for supervisory control of settings.
- Dispense valve and syringe mounting hardware available.
- Accepts all LOCTITE Robot Mounting hardware. See page 80.

VARIABLE	RANGE
Slide down time/Turntable on	0.01 seconds to 99.99 seconds
Delay time before dispense	0.01 seconds to 99.99 seconds
Dispense time	0.01 seconds to 99.99 seconds

Required Separate Purchases

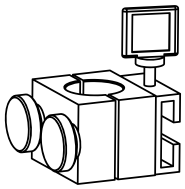
- Dispense valve, reservoir, syringe system or cartridge adapter.
- Valve/syringe mounting bracket.
- Dispense needles.
- Fixture to locate part(s).

TECHNICAL SPECIFICATIONS		
Dispense Pattern		Circles or Arcs in a Circular Pattern
Rotating Speed		0–999 Degrees
Slide Stroke		0–2" (0 – 50 mm)
Maximum Part Height		12" (305 mm)
Maximum Part Weight		6 lbs. (2.7 kg)
Dimensions	**Width**	12" (305 mm)
	Depth	8¾" (222 mm)
	Height	22" (559 mm) Min. 25" (635 mm) Max.
Weight		18.5 lbs. (8.4 kg)
Air Input		Clean, dry air not to exceed 125 psig (8.5 bar), and filtered with a maximum of 50 micron.
Power	**Supply**	110-230 VAC / 50-60 Hz.
	Internal	24 VDC
Parts Included		(1) Dispense System (1) Foot Switch (1) Power Supply with Cord (1) Instructional Manual

LOCTITE® Brand Mounting Hardware & Guarding Enclosures

Mounting Bracket Kits

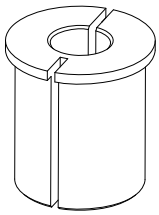
Mounting bracket kits are used to grasp syringe barrels, LOCTITE® Posi-Link™ syringe and dual cartridge nests, 300 ml cartridges, dispense valves, and LEDs. Mounting rails or adapters are required to mount the brackets on the robot or dispense station.



Item #	Description
98316	30 ml syringe mounting bracket kit
98318	300 ml cartridge mounting bracket kit
98326	98009 and 98013 valve mounting bracket kit
98327	97113 and 97114 valve mounting bracket kit
98406	983914 and 986300 poppet valve mounting bracket kit
98441	98520 spray and 98084 micro needle valve mounting bracket kit
98646	Universal syringe bracket for Posi-Link™
98647	50 ml dual cartridge bracket for Posi-Link™
1034030	CureJet™ mounting bracket kit
1638885	EQ VA10 mounting bracket

10 ml Syringe Adapter

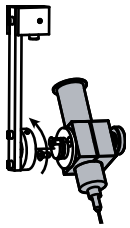
This adapter is inserted into the 30 ml syringe mounting bracket kit to adapt it for 10 ml syringes. The 30 ml syringe mounting bracket (item 98316) must be purchased separately.



Item #	Description
98320	10 ml adapter for use with 98316

Mounting Adapter for All 4-Axis Robots

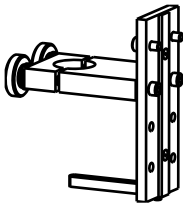
A mounting adapter is required when using LOCTITE brand mounting hardware for all 4-axis robots. The mounting adapter includes a 360-degree rotation kit.



Item #	Description
98336	Mounting adapter for 4-axis robots

Complete Mounting Kits for 3-Axis SCARA Robots*

Complete mounting adapter kits hold the syringe, cartridge or valve, and position the dispense tip 60 mm from the end of the tool arm.



Item #	Description
98343	97113 and 97114 valve holder
98408	983914 and 986300 poppet valve holder

* These are sized for 25 gauge needles and must be modified by the user for larger gauge sizes.

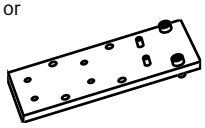
Robot Needle Calibration Kit

Electronic system integrates with D-Series robots for precise, repeatable tip location.

Item #	Description
1569523	Robot Needle Calibration Kit

Z Height Adjustment Plate for 3-Axis Benchtop Robots

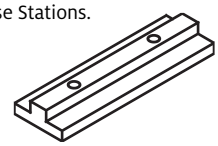
This plate allows you attach the mounting rails above or below the mounting bracket on the robot.



Item #	Description
98357	Z height adjustment plate

Mounting Rails for 3-Axis Benchtop Robots and Dispense Stations

A mounting rail is required when using LOCTITE brand mounting hardware for all 3-axis Benchtop Robots and Dispense Stations.



Item #	Description
98328	3¾" bar with two cap screws
98329	8¾" bar with two cap screws

Guarding Systems

FOR PLANTS REQUIRING HIGHER SAFETY LEVELS

- Light Curtain or Interlocked Sliding Door* on front.
- Sturdy extruded aluminum frame.
- Polycarbonate panels on left, right and rear.
- Operator control panel mounted on front right.
- Direct plug-in to robots.

* Interlocked door model for Benchtop units only.

Item #	Description	Dimensions
989787	200 Series Slide Door Guarding System	22" W x 26" D x 27" H
989763	200 Series Light Curtain Guarding System	22" W x 24" D x 27" H
989788	300 Series Slide Door Guarding System	30" W x 32" D x 30" H
989771	300 Series Light Curtain Guarding System	30" W x 30" D x 30" H
989789	400/500 Series Slide Door Guarding System	32" W x 36" D x 35" H
989777	400/500 Series Light Curtain Guarding System	32" W x 38" D x 35" H
989852	SCARA Light Curtain Guarding System	48" W x 48" D x 36" H

Light Cure Solutions

Henkel offers the widest selection of light curing equipment available from any one company on the market today. Our LOCTITE® brand ensures you have an innovative and dependable systems for all your light curing adhesive applications. Whether your process calls for a manual, semiautomatic or fully integrated automatic solution, you will find the LOCTITE brand light curing device to meet your specific requirements. Please see the charts below, which summarize our complete line.

Light Cure

PRODUCT		Item Number	Wavelength	Options/Accessories
LED Light Curing Devices – *High-powered benchtop and portable systems for visible light cure adhesives, providing effective spot-curing solutions for both manual or integrated automatic systems.*				
	LOCTITE EQ CL32 LED Spot System	2182207	405 nm	Optional: LOCTITE EQ CL32 Mounting Kit 2182206
	LOCTITE EQ CL32 LED Spot System	2182210	365 nm	Optional: LOCTITE EQ CL32 Mounting Kit 2182206
	LOCTITE EQ CL28 CureJet™	2183339	380 nm	Used with 1364033 or 1180632
	LOCTITE EQ CL28 CureJet™	2183340	405 nm	Used with 1364033 or 1180632
	LOCTITE LED Controller	1364033	N/A	Used with 2183339 and 2183340
	LOCTITE CureJet™ Quad Controller	1180632	N/A	Used with 2183339 and 2183340
	LOCTITE LED Flood Controller	1359255	N/A	Used with 2139180, 2139181, and 2139182
	LOCTITE EQ CL30 LED Quad Controller	2257357	N/A	Used with 2139180, 2139181, and 2139182
	LOCTITE EQ CL30 LED Flood	2139180	405 nm	Used with 1359255 and 2257357
	LOCTITE EQ CL30 LED Flood	2139181	380 nm	Used with 1359255 and 2257357
	LOCTITE EQ CL30 LED Flood	2139182	365 nm	Used with 1359255 and 2257357
	LOCTITE Single Line Array LED – Controller	1447728	N/A	Used with 2210212 and 2209919
	LOCTITE CL34 LED Line Array System	2210212	365 nm	Used with 1447728
	LOCTITE CL34 LED Line Array System	2209919	405 nm	Used with 1447728

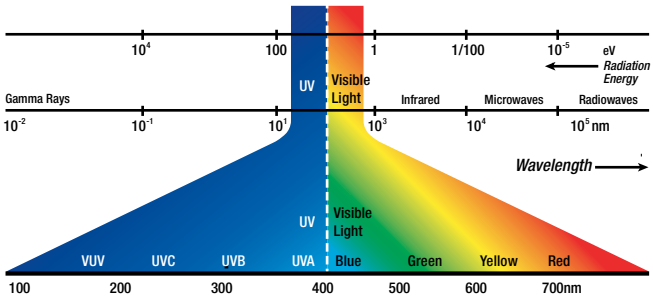
PRODUCT		Item Number	Wavelength	Options/Accessories
Wand Systems – *Three different spot curing systems with a range of wavelengths are ideal for both manual or integrated automatic systems.*				
	LOCTITE EQ CL25 System	1786127	LED-365 nm and 405 nm	Used with 1984957 and 2104788
	LOCTITE EQ CL10 Single LED Controller	1514636	LED-365 nm and 405 nm	Used with 1538499 and 1746633
	LOCTITE EQ CL10 Quad LED Controller	1514634	LED-365 nm and 405 nm	Used with 1538499 and 1746633
	LOCTITE EQ CL15 UV Wand System	1661548	100-watt High Pressure Mercury Arc – 250 to 450 nm	A Light Guide is required for this system. See table on page 92 for options and item numbers.

PRODUCT		Item Number	Lamp Type
Cure Chambers & Flood Systems – *These systems are ideal for batch processing. UV and alternate visible light bulb options are available.*			
	LOCTITE 7401 UV Chamber	98039	400 watt Metal Halide
	LOCTITE 7411-S UV Flood System	98413	400 watt Metal Halide
	LOCTITE Focused UV Flood Curing System	1113131	400 watt Metal Halide

PRODUCT		Item Number	Lamp Type
Light Meters – *UV and visible light cure systems. These meters provide precise and repeatable measurement of any LOCTITE brand light cure system to ensure your process remains in control.*			
	LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	1390323	320 to 400 nm
	LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	1265282	350 to 500 nm
	LOCTITE 7020 UV Spot Radiometer	1406024	280 to 400 nm / 3, 5 and 8 mm Light Guides

PRODUCT		Item Number	Lamp Type
Cure Conveyors – *Can be used for either continuous or batch processing of assemblies.*			
	LOCTITE 7415 UV Benchtop Conveyor	98003	300 W/in. Electrodeless (Sold Separately)
High Intensity Light Sources – *Can be used with our LOCTITE UV conveyors or integrated into a custom system with added shielding, cooling and venting (not included with these products).*			
	LOCTITE Electrodeless Lamp Assembly and Power Supply	98004 (208 VAC)	300 W/in. Electrodeless
	LOCTITE Electrodeless Lamp Assembly and Power Supply	98005 (240 VAC)	300 W/in. Electrodeless
	LOCTITE High Intensity Ultraviolet Sources	980160	1,500 watt Medium Pressure Mercury Arc Lamp

The Electromagnetic Spectrum



For proper eye protection, use LOCTITE brand Safety Glasses.

98452 – UV & Visible Light Safety Glasses, Orange

LED Light Curing Devices

Henkel has introduced these ingenious and effective LED light curing devices. High power, portability, continuous-duty cycles and long LED life are some of the key reasons that make LOCTITE® brand LED light sources the ideal solution for many light curing adhesive applications.

LOCTITE POINT LIGHT SOURCES

LOCTITE® EQ CL32 LED Spot System

2182207 - 405 nm
2182210 - 365 nm

The LOCTITE EQ CL32 LED Spot is a cost-effective, high-powered, portable LED light source that offers a high level of flexibility for all your UV or visible light curing needs. The lightweight, compact design helps minimize operator fatigue, while its small size and long focus length make it unsurpassed for applications in crowded areas and hard-to-reach bond areas. Usable as handheld or stationary mount, this system is superb for prototyping, scale-up, or full production environments.

Features:

- High intensity – up to 3 W/cm² (at 8-12 mm).
- Lightweight, compact design.
- Robust, ergonomic housing.
- 365 nm and 405 nm LED heads.
- Battery or line powered (3-hour battery life).
- Handheld or stationary mount.
- Up to 100% duty cycle (with line power).
- Integrated timer.

Benefits of LED Technology:

- Up to 20,000 hours of LED life.
- Instant on (no warm-up time).
- Low energy/power consumption.
- No IR emissions (reducing thermal damage and warp).
- Highly focused light wavelength.

LOCTITE® Light Cure Adhesives typically cured using:**

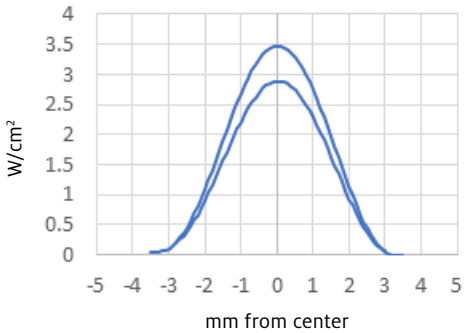
- All LOCTITE Flashcure® Adhesives†
- 3105™ (3311™)
- 3106™ (3321™)
- 3107™ (3341™)
- 3494™
- 3525™
- 3526™
- 3921™
- 3922™
- 3924™
- 3926™
- 3943™
- 3944™
- 3971™†
- 3972™†
- 3974™
- 3979™†
- 5055™
- 5056™

TECHNICAL SPECIFICATIONS		
Item Number	**2182207**	**2182210**
Dimensions	9" L x 1.1" W x 0.81" H	
Weight	0.5 lbs.	
Utilities	Batteries or Universal 110-240 V; 47-263 Hz	
Light Source	High-Powered LED	
Typical Intensity*	2.5-3.0 W/cm² (See Intensity Profile Graph)	
Spectral Output Range	405 nm	365 nm
Additional Accessories Sold Separately		
	98452 – LOCTITE UV & Visible Light Safety Glasses (Removes all wavelengths 200 nm to 540 nm)	
2251337 – LOCTITE EQ CL32 Radiometer Adapter		

Radiometers	Use With	Requires
1390323 – LOCTITE Radiometer Dosimeter UV LED and UV A/B Light	2182210 – LOCTITE EQ CL32 LED Spot - 365 nm	2251337 – LOCTITE EQ CL32 Radiometer Adapter
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	2182207 – LOCTITE EQ CL32 LED Spot - 405 nm	

TYPICAL INTENSITY PROFILE

EQ CL32 405 nm Intensity Range
(at 8 mm to 20 mm Distance)



* Values denote typical expected intensities and are not a fixed specification. Exact output measurement is dependent on the brand and calibration method of the meter used and normal variation of the Light Emitting Diodes. These measurements were made with a LOCTITE Radiometer Dosimeter, Item #1265282. As with all applications, testing with your specific part and adhesive is recommended.

** Henkel recommends customers test all new adhesive applications under simulated or actual end-use conditions to ensure the adhesive meets or exceeds all required product specifications. This data was generated under highly controlled laboratory conditions, and may not represent actual assembly conditions.
† Tack-free.

LOCTITE® EQ CL28 CureJet™ LED Spot 380 nm

Item Number: 2183339

Our LOCTITE® CureJet™ LEDs are our highest-power LED spot curing systems. This innovative design offers significantly wider cure area and curing intensity capability than typical spot LED devices, providing the optimum in processing speeds. Choose the system based on the adhesive that is in use.

Features:

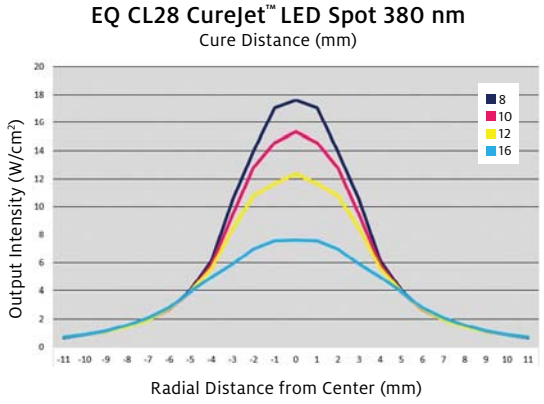
- A 100% on-time duty cycle.
- Unlike traditional arc lamps, 100% of LED light output is within the usable curing spectrum of LOCTITE adhesives.
- Zero infrared emissions, reducing part heating (warping) to an absolute minimum.
- Instant On/Off – no warm-up like traditional UV systems.
- Manual or timed light exposures using an integrated control timer.
- LEDs last up to 10 times longer than typical UV bulb units, with negligible output decay during duty life.
- Internal LED diagnostics for each cycle, with visual and digital status outputs; connect via digital I/O port using optional PLC interface cable.
- Stackable with 25 mm center-to-center spacing.
- High intensity – up to 18 W/cm^2.
- Wide spot cure area – up to 20 mm.
- Multiple wavelengths – 380 nm, and 405 nm.
- Single or quad controller options.
- Stackable LED heads with 25 mm center to center spacing.
- Intensity adjustment (with quad controller).
- Up to 2.5 times improvement in cure-through depth.

LOCTITE® Light Cure Adhesives typically cured using:**

Item Number: 2183339

- All Flashcure®†
- 349™
- 363™
- 3108™
- 3301™
- 3311™
- 3321™
- 3336™
- 3341™†
- 3491™
- 3492™
- 3493™
- 3494™
- 3525™†
- 3526™†
- 3751™†
- 3761™†
- 3921™
- 3922™
- 3924™
- 3926™
- 3936™
- 3941™
- 3942™
- 3943™
- 3944™
- 3971™†
- 3972™†
- 3974™
- 3979™†
- 5055™
- 5056™

TYPICAL INTENSITY PROFILE



Complete LOCTITE® CureJet™ Curing System

Controller	+	CureJet™ EQ CL28 380 LED	+	Interconnecting Cables	
1364033		2183339		3 m 1370352	1 m 1370351

TECHNICAL SPECIFICATIONS		
Item Number	**2183339 – LOCTITE EQ CL28 LED CureJet™**	**1364033 – LOCTITE LED Controller**
Dimensions	25 mm W x 65 mm H x 270 mm L	260 mm W x 105 mm H x 260 mm L
Weight	0.4 kg	3.0 kg
Input Power	•	85/264 VAC; 50/60 Hz
Maximum Current	•	•
Typical Intensity*	*See Intensity Profile Graph*	
Spectral Peak	380 nm	•
Cure Light Status Outputs	Visual OK: Blue panel light on Digital OK: Dry contact closure	

Additional Accessories Sold Separately			
	98452 – LOCTITE UV & Visible Light Safety Glasses (Removes all wavelengths 200 nm to 540 nm) *[Recommended]*		1180632 – LOCTITE CureJet™ Quad Controller
	1390323 – LOCTITE Radiometer Dosimeter UV LED and UV A/B Light		8900550 – PLC Interface Cable
1421420 – LOCTITE CureJet™ LED Dosimeter Adapter			

* Values denote typical expected intensities and are not a fixed specification. Exact output measurement is dependent on the brand and calibration method of the meter used and normal variation of the Light Emitting Diodes. These measurements were made with a LOCTITE Radiometer Dosimeter, Item #1390323. As with all applications, testing with your specific part and adhesive is recommended.

** Henkel recommends customers test all new adhesive applications under simulated or actual end-use conditions to ensure the adhesive meets or exceeds all required product specifications. This data was generated under highly controlled laboratory conditions, and may not represent actual assembly conditions.

† Tack-free.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® EQ CL28 CureJet™ LED Spot 405 nm

Item Number: 2183340

Our LOCTITE® CureJet™ LEDs are our highest-power LED spot curing systems. This innovative design offers significantly wider cure area and curing intensity capability than our typical LED devices, providing the optimum in processing speeds. Choose the system based on the adhesive that is in use.

LOCTITE CureJet™ shown with LED controller and cable sold separately

Features:

- A 100% on-time duty cycle.
- Unlike traditional arc lamps, 100% of LED light output is within the usable curing spectrum of LOCTITE adhesives.
- Zero infrared emissions, reducing part heating (warping) to an absolute minimum.
- Instant On/Off – no warm-up like traditional UV systems.
- Manual or timed light exposures using an integrated control timer.
- LEDs last up to 10 times longer than typical UV bulb units, with negligible output decay during duty life.
- Internal LED diagnostics for each cycle, with visual and digital status outputs; connect via digital I/O port using optional PLC interface cable.
- Stackable with 25 mm center-to-center spacing.
- High intensity – up to 27 W/cm^2.
- Wide spot cure area – up to 20 mm.
- Multiple wavelengths – 380 nm, and 405 nm.
- Single or quad controller options.
- Stackable LED heads with 25 mm center to center spacing.
- Intensity adjustment (with quad controller).
- Up to 2.5 times improvement in cure-through depth.

Complete LOCTITE® CureJet™ Curing System

Single Controller		*CureJet™ EQ CL28 405 LED*		*Interconnecting Cables*
	+		+	
1364033		*2183340*		*3 m 1370352 or 1 m 1370351*

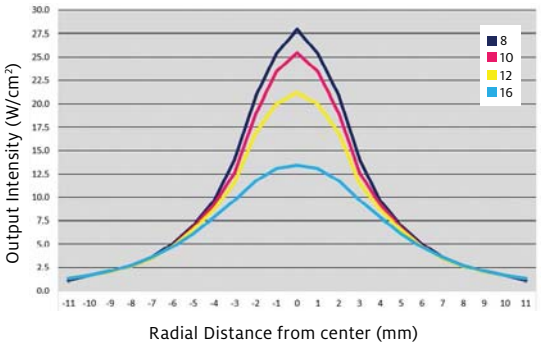
LOCTITE® Light Cure Adhesives typically cured using:**

Item Number: 2183340

- All Flashcure®†
- 3301™
- 3311™
- 3321™
- 3341™†
- 3494™
- 3525™†
- 3526™
- 3554™†
- 3555™†
- 3556™†
- 3751™†
- 3761™†
- 3921™
- 3922™
- 3924™
- 3926™
- 3936™
- 3942™
- 3943™
- 3944™
- 3971™†
- 3972™†
- 3974™
- 3979™†
- 5055™
- 5056™

TYPICAL INTENSITY PROFILE

EQ CL28 CureJet™ LED Spot 405 nm



TECHNICAL SPECIFICATIONS		
Item Number	**2183340 – LOCTITE EQ CL28 405 LED CureJet™**	**1364033 – LOCTITE LED Controller**
Dimensions	25 mm W x 65 mm H x 270 mm L	260 mm W x 105 mm H x 260 mm L
Weight	0.4 kg	3.0 kg
Input Power	•	85/264 VAC; 50/60 Hz
Maximum Current	•	•
Typical Intensity*	*See Intensity Profile Graph*	
Spectral Peak	405 nm	•
Cure Light Status Outputs	Visual OK: Blue panel light on Digital OK: Dry contact closure	

Additional Accessories Sold Separately			
	98452 – LOCTITE UV & Visible Light Safety Glasses (Removes all wavelengths 200 nm to 540 nm) *[Recommended]*		1180632 – LOCTITE CureJet™ Quad Controller
	1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light		8900550 – PLC Interface Cable
1421420 – LOCTITE CureJet™ LED Dosimeter Adapter			

* Values denote typical expected intensities and are not a fixed specification. Exact output measurement is dependent on the brand and calibration method of the meter used and normal variation of the Light Emitting Diodes. These measurements were made with a LOCTITE Radiometer Dosimeter, Item #1265282. As with all applications, testing with your specific part and adhesive is recommended.

** Henkel recommends customers test all new adhesive applications under simulated or actual end-use conditions to ensure the adhesive meets or exceeds all required product specifications. This data was generated under highly controlled laboratory conditions, and may not represent actual assembly conditions.

† Tack-free.

LOCTITE® CUREJET™ QUAD CONTROLLER

Item Number: 1180632

The ideal solution when your application calls for multiple CureJet™ stations. This state-of-the-art controller is designed to provide individual programming and intensity control for one to four CureJet™ stations and is compatible for use with all our CureJet™ LED Light Sources, regardless of wavelength.

Features:

- Controls up to four channels of CureJet™ LED Spot Light Sources independently.
- Up to four channels can be activated with a single foot switch or each with its own foot switch.
- Each CureJet™ LED Light Source can be set to its own cure time.
- The intensity of each CureJet™ LED Light Source can be programmed from 1% to 100% intensity.
- Each channel can be programmed to turn on and off in a sequence, if desired.
- Ten different programs can be saved into memory.
- Each of the output channels is monitored and the output current is controlled to maintain a consistent intensity output of each Light Source.
- Controller monitors the temperature of each Light Source.
- Contains self-diagnosis with warning messages.
- Auto detection of different CureJet™ LED Light Sources.
- Interface I/O connectors for external automation.
- Front panel indicators show the channels that are enabled; when the LED Light Source is turned on; and if any faults or problems are evident.

TECHNICAL SPECIFICATIONS	
Item Number	**1180632**
Dimensions	9.3" H x 5.6" W x 7.1" D
Weight	10.9 lbs.
Input Voltage	88-264 VAC; 50/60 Hz.
Power Consumption	325 watts
Parts Included	(1) CureJet™ Quad Controller (1) Operator's Manual (1) AC Power Cord (1) Foot Switch – 97201
Additional Accessories Sold Separately	
1370351 / 1370352 – Interconnecting Cables	98452 – LOCTITE UV & Visible Light Safety Glasses
2183339 – LOCTITE EQ CL28 380 LED CureJet™ 2183340 – LOCTITE EQ CL28 405 LED CureJet™	

LED Flood Systems

The LOCTITE® EQ CL30 LED Flood Systems, consisting of a Controller, an LED Cure Array and connecting cable (each sold separately), produce a curing area of approximately 100 mm x 100 mm. These unique LED flood systems are designed for use with LOCTITE UV/visible cure adhesives. The expected life is over 20,000 hours with proper handling. Unlike traditional arc lamps, 100% of LED light output is within the usable cure spectrum of LOCTITE adhesives. LED Cure Arrays consist of individually reflectorized LEDs creating a uniform cure area, and are available in either 365 nm, 380 nm or 405 nm wavelengths. The LED Cure Array wavelength is selected according to the curing requirements of the adhesive.

LOCTITE® EQ CL30 LED Quad Controller

Item Number: 2257357

LOCTITE® LED Flood Controller

Item Number: 1359255

LOCTITE® EQ CL30 LED Flood Cure, 405 nm

Item Number: 2139180

LOCTITE® EQ CL30 LED Flood Cure, 380 nm

Item Number: 2139181

LOCTITE® EQ CL30 LED Flood Cure, 365 nm

Item Number: 2139182

This LOCTITE Flood Array consists of 144 individually reflectorized LEDs for creating a uniform curing area at 365 nm, 380 nm or 405 nm wavelengths. The Flood Array produces a curing area of 100 mm x 100 mm. The expected life is over 20,000 hours with proper handling.

Features:

- Manual On/Off operation via the foot switch (supplied).
- Timed On/Off control via the built-in timer on the front panel, 0.1 to 99.9 seconds.
- Indicator lights on the front panel of the Controller provide visual confirmation that the LEDs are in or out of their acceptable range.
- Automated control via a customer-supplied PLC.
- End of Cycle signal and Error Relay signal available via output connector.
- Optimized to emit at the specific wavelength of 365 nm, 380 nm and 405 nm.
- Optimal curing distance: 50 mm.
- 100% duty cycle.
- Instant On/Off (no warm-up time required like traditional arc lamp systems).
- Stackable on 100 mm center-to-center spacing in both X and Y directions.
- Energy-efficient LEDs produce little wasted energy.
- Cold Light: LEDs produce zero infrared emissions, reducing part heating and warping.
- Lasts up to 10 times longer than traditional arc lamps, with negligible output decay during duty cycle.
- Intensity adjustment with Quad Controller.

LOCTITE LED Flood Cure

LOCTITE LED Flood Controller

TECHNICAL SPECIFICATIONS			
Item Number	**1359255 – LOCTITE LED Flood Controller**		
Dimensions	14.4" L (365 mm) x 12.2" W (310 mm) x 5.3" H (135 mm)		
Weight	7.7 lbs. (3.5 kg)		
Input Power	90-260 VAC, 47-63 Hz.		
Power Consumption	Approximately 350 watts		
Parts Included	(1) Foot Switch	(1) Operating Manual	(1) AC Power Cord
Item Number	**2257357 - LOCTITE EQ CL30 LED Quad Controller**		
Dimensions	600 x 340 x 733.2 mm		
Weight	31 lbs (14 kg)		
Input Power	110~240 VAC 50/60Hz		
Power Consumption	1500 watts		
Parts Included	(1) Foot Switch	(1) Operating Manual	(1) AC Power Cord
Item Number	**2139182 – LOCTITE EQ CL30 LED Flood Cure, 365 nm**	**2139181 – LOCTITE EQ CL30 LED Flood Cure, 380 nm**	**2139180 – LOCTITE EQ CL30 LED Flood Cure, 405 nm**
Dimensions	120x104x101 mm		
Weight	1.5 kg		
Compliance	ROHS		

Complete LOCTITE® LED Flood Cure System

Single Controller		*Quad Controller*		*EQ CL30 LED Flood Cure*
	or		+	
1359255		*2257357*		*2139182, 2139181, 2139180*

Additional Accessories Sold Separately		
	1333333 – Connecting Cable	
Radiometers		**Use With**
	1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	2139181, 2139182
	1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	2139180

LOCTITE® Light Cure Adhesives typically cured using:*

Item Numbers: 2139181, 2139182

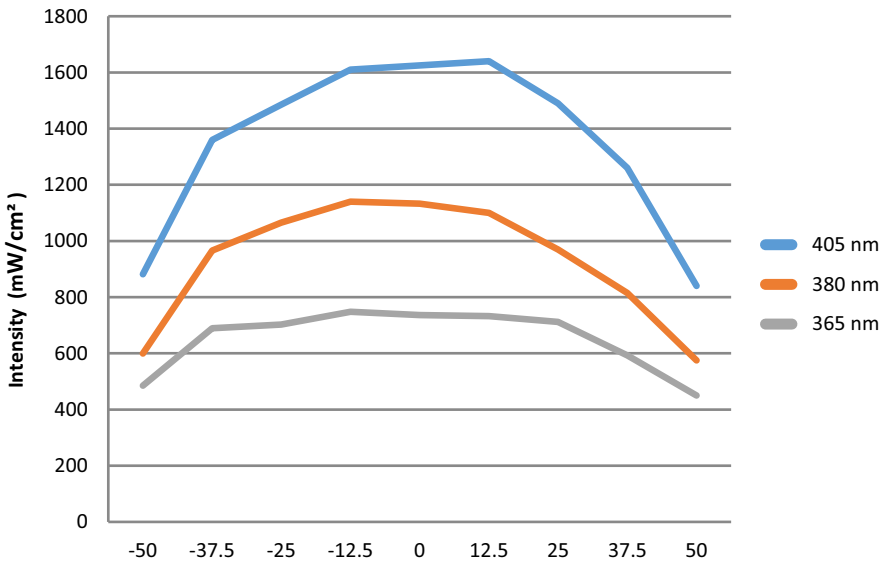
- All Flashcure®†
- 3301™
- 3311™
- 3321™
- 3336™
- 3341™†
- 3494™
- 3525™†
- 3526™
- 3751™
- 3761™
- 3921™
- 3922™
- 3924™
- 3926™
- 3936™
- 3941™
- 3942™
- 3943™
- 3944™
- 3971™†
- 3972™†
- 3974™
- 3979™
- 5055™
- 5056™
- 5240™

Item Number: 2139180

- 3301™
- 3311™
- 3321™
- 3341™†
- 3494™
- 3525™†
- 3526™
- 3554™†
- 3555™†
- 3556™†
- 3751™
- 3761™
- 3921™
- 3922™
- 3924™
- 3926™
- 3936™
- 3941™
- 3942™
- 3943™
- 3944™
- 3971™†
- 3972™†
- 3974™
- 3979™
- 5055™
- 5056™
- 5240™

TYPICAL INTENSITY PROFILE

EQ CL30 Intensity Profile
@ 50 mm Working Distance



* Henkel recommends customers test all new adhesive applications under simulated or actual end-use conditions to ensure the adhesive meets or exceeds all required product specifications. This data was generated under highly controlled laboratory conditions, and may not represent actual assembly conditions.
† Tack-free.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® Single Line Array LED – Controller

Item Number: 1447728

LOCTITE® CL34 LED Line Array System - 365 nm

Item Number: 2210212

LOCTITE® CL34 LED Line Array System - 405 nm

Item Number: 2209919

Our LOCTITE® CL34 LED Line Array system provides high-power adhesive curing control for high speed product lines while ensuring minimal space intrusion into the process. Multiple LED Arrays can be stacked tightly together to accommodate your process. The system also includes a small upright controller for up to four LED heads, providing independent time for each LED Array that is installed.

Features:

- Highly focused LED Array provides effective curing intensity across a 5 mm x 80 mm cross-sectional area.
- Super long life, 20,000-hour LEDs are instantly On/Off with virtually no part heating.
- Optional Cure Booster Lens Assembly available to increase intensity up to 2x.
- Optimize cure time for up to four individual Arrays with just one controller.
- LED temperature and voltage monitoring alarms are displayed visually on the controller or can be integrated into PLC interface.
- Stackable side-by-side to accommodate process requirements.
- Can be run with a 100% duty cycle.

Complete LOCTITE® LED Line Cure System

Quad Controller		*LED Line Cure*		*Connection Cable*
	+		+	
1447728		*2210212 or 2209919*		*2.1 m 1483245*

LOCTITE® Light Cure Adhesives typically cured using:*

Item Number: 2210212

- All Flashcure®†
- 349™
- 363™
- 3108™
- 3301™
- 3311™
- 3321™
- 3336™
- 3341™
- 3491™
- 3492™
- 3493™
- 3494™
- 3526™
- 3751™†
- 3761™†
- 3921™†
- 3922™
- 3924™
- 3926™
- 3936™
- 3941™
- 3942™
- 3943™
- 3944™
- 3971™†
- 3972™†
- 3974™
- 3979™
- 5055™
- 5056™
- 5240™

Additional Accessories Sold Separately			
Radiometers		**Use With**	**Requires**
	1390323 – LOCTITE Radiometer Dosimeter UV LED and UV A/B Light	2210212 – LOCTITE CL34 LED Line Array System - 365 nm	N/A
	1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	2209919 – LOCTITE CL34 LED Line Array System - 405 nm	N/A
For proper eye protection, use LOCTITE brand Safety Glasses.		*98452 – UV & Visible Light Safety Glasses, Orange*	

TECHNICAL SPECIFICATIONS		
Item Number	**1447728 – LOCTITE Single Line Array LED – Controller**	
Dimensions	5.9"W x 8.8" H 10.2" D	
Weight	5.25 lbs.	
Input Power	90-260 VAC, 47-63 Hz	
Power Consumption	150 watts	
Recommended Operating Temperature	+50°F to +104°F	
Item Number	**2210212 – LOCTITE CL34 LED Line Array System - 365 nm**	**2209919 – LOCTITE CL34 LED Line Array System - 405 nm**
Dimensions	3.15" L x 1.49" H x 0.9" W	
Weight	0.6 lbs.	
Typical Intensity	1 W/cm²	1.3 W/cm²
Optimum Cure Distance	5 to 20 mm	
Curing Area	5 mm x 80 mm	
Recommended Operating Temperature	+50°F to +104°F	

* Henkel recommends customers test all new adhesive applications under simulated or actual end-use conditions to ensure the adhesive meets or exceeds all required product specifications. This data was generated under highly controlled laboratory conditions, and may not represent actual assembly conditions.
† Tack-free.

LOCTITE® EQ CL25 LED SPOT SYSTEM

LOCTITE® EQ CL25 LED Spot Controller

Item Number: 1786127

LOCTITE® EQ CL25 405 nm LED Head

Item Number: 2104788

LOCTITE® EQ CL25 365 nm LED Head

Item Number: 1984957

The LOCTITE® EQ CL25 is one of the highest intensity LED systems available. With output as high as 20 W/cm² and a compact multi-channel design, this system provides a high level of both flexibility and performance. The system can be integrated into both manual work stations as well as automated production lines, and each of the 4 channels can be programmed independently with multiple programming modes available.

System Features:

- Intensity up to 20 W/cm²
- Small profile LED heads for tight, hard-to-reach locations
- 100% duty cycle
- 3 mm, 6 mm, and 10 mm spot sizes
- 365 nm and 405 nm wavelengths

Controller Features:

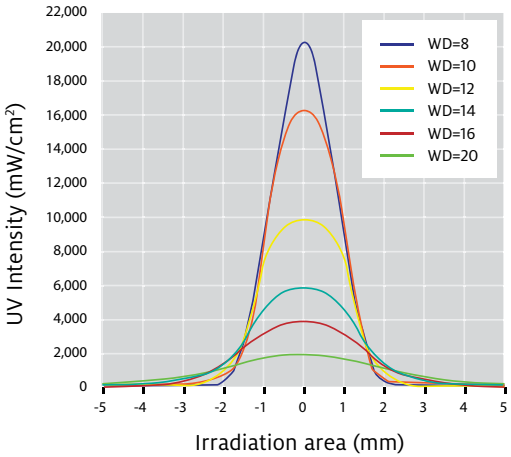
- 4 independent channels
- Multi-step programming capability and storage
- Intensity and time adjustment for each channel
- LED temperature monitoring

TECHNICAL SPECIFICATIONS	
Item Number	1786127
Channels	Up to 4
Modes	Manual, Time, Continuous
Power Supply	100-240 VAC, 50/60 Hz
Power Consumption	60 VA
Temperature Range	5 C to 35 C
Weight	1.3 kg
Dimensions	127 mm H x 80 mm W x 140 mm D
Wavelength	405 nm - with IDH 2104788 365 nm - with IDH 1984957
Required Accessories	
Cables (1 per LED head)	1.7 m - IDH 1305339 3.0 m - IDH 1984961
Lenses (1 per LED head)	3 mm - IDH 1305335 6 mm - IDH 1305333 10 mm - IDH 1305332

Radiometers	Use With	Requires
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	1984957 - LOCTITE EQ CL25 365 nm LED Head	1403402 - Adapter for EQ CL25 LED Heads
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	2104788 - LOCTITE EQ CL25 405 nm LED head	1403402 - Adapter for EQ CL25 LED Heads

TYPICAL INTENSITY PROFILE

EQ CL25 UV Intensity Profile (365 nm w/3 mm Lens)



For proper eye protection, use LOCTITE brand Safety Glasses.

98452 – UV & Visible Light Safety Glasses, Orange

For additional information and the full line of equipment, visit **equipment.loctite.com.**

Wand Systems

LOCTITE® EQ CL10 Single LED Controller

Item Number: 1514636

LOCTITE® EQ CL10 Quad LED Controller

Item Number: 1514634

LOCTITE® EQ CL10 6 mm LED Head 2.7 m

Item Numbers: 1538499 – 365 nm
1746633 – 405 nm

The LOCTITE® EQ CL10 LED System is a wand style LED spot light source with heads that emit light at 365 nm. It is ideal for both manual work stations as well as integration into automated production lines. The EQ CL10 can be operated in a continuous light output mode or programmed output mode with programmable light output intensity and time. Unlike traditional mercury arc wand systems, the targeted wavelength of the EQ CL10 LEDs prevents thermal damage or harmful effects to objects being illuminated. Its low power consumption makes it an energy-saving and environmentally responsible light source compared to mercury arc lamps and, unlike mercury arc systems, does not require routine light guides or lamp replacements.

Features:

LOCTITE EQ CL10 Single LED Controller

- Instant On/Off capabilities; no warm-up time required as compared to mercury arc lamp UV Wand systems.
- LED head can be programmed for UV intensity and exposure time.
- Temperature feedback prevents LED head overheating.
- More than 20,000 working hours.
- No IR emission resulting in low-temperature curing. Will not damage parts due to heat emission.
- Up to 90% energy savings, compared with mercury arc lamps.
- Small LED head for handheld or fixed fixture applications.
- Foot switch actuated or PLC remote control.
- Low maintenance cost.

LOCTITE EQ CL10 Quad LED Controller

- Instant On/Off capabilities; no warm-up time required as compared to mercury arc lamp UV Wand systems.
- Up to four (4) heads that can be operated independently or simultaneously in either continuous output mode or in an up to 10-step program mode with independent time and intensity settings for each head.
- Cycling can be initiated with the Start/Stop button on the front panel; a foot switch (included); or via a PLC connection with an external start signal.
- Each LED head can be programmed independently with an up to 10-step program of light intensity and exposure time.
- Provides five programming modes (constant intensity; pulsed; step; optical; manual).
- Each channel is adjustable and can be controlled separately.
- Temperature feedback prevents LED heads overheating.
- More than 20,000 working hours.
- No IR emission resulting in low-temperature curing. Will not damage parts due to heat emission.
- Up to 90% energy savings, compared with mercury arc lamps.
- Small LED head for handheld or fixed fixture applications.
- Low maintenance cost.

For proper eye protection, use LOCTITE brand Safety Glasses.

98452 – UV & Visible Light Safety Glasses, Orange

LOCTITE EQ CL10 Single LED Controller

LOCTITE EQ CL10 Quad LED Controller

Complete LOCTITE® EQ CL10 Curing System

Single LED Controller		*Quad LED Controller*		*LED Heads (1-4)*
	or		+	
1514636		*1514634*		*1538499 – 365 nm* *1746633 – 405 nm*

TECHNICAL SPECIFICATIONS			
Item Numbers		**1514636**	**1514634**
Modes	Time	Intensity: 0%–100%, Time: 0.1–999.9 sec.	Intensity: 0%–100%, Time: 0.1–999.9 sec.
	Manual	Intensity: 0%–100%, Time: Manual Control	Intensity: 0%–100%, Time: Manual Control.
	Step	—	10 steps, each step can define intensity and time independently.
Power Supply		AC 100-240V 50/60 Hz	100-220 VAC; 50/60 Hz Max. 1.5 amps
Power Consumption		15 watts	30 watts
Cooling Method		Natural Cooling	
Temperature Range		Operating: +5°C to 40°C, Storage: -15°C to +65°C	
Weight		0.6 kg	2 kg
Wavelength		365 nm or 405 nm	
Replacement Parts			
1538496 – EQ CL10 365 nm; 6 mm LED Lens		1750074 – EQ CL10 405 nm; 6 mm LED Lens	

Additional Accessories Sold Separately

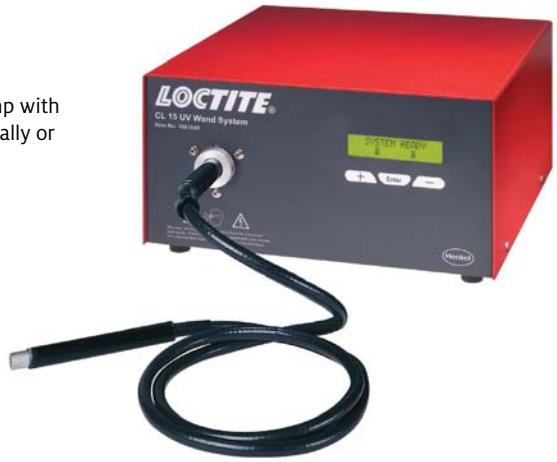
97201 – Foot Switch

Radiometers	Use With	Requires
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	1538499 – LOCTITE EQ CL10 6 mm LED Head 2.7 m 365 nm	1403402 – Adapter for EQ CL10 LED heads (1538499 – 365 nm) (1746633 – 405 nm)
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	1746633 – LOCTITE EQ CL10 6 mm LED Head 2.7 m 405 nm	1403402 – Adapter for EQ CL10 LED heads (1538499 – 365 nm) (1746633 – 405 nm)

LOCTITE® EQ CL15 UV Wand Systems

Item Number: 1661548

The LOCTITE® EQ CL15 Wand Systems use a 100 watt high-pressure mercury arc lamp with a universal power supply and a liquid-filled light wand. They can be operated manually or in the timed mode and are capable of interfacing with a PLC controlled circuit.



Features:

- Powerful mercury arc lamp provides up to 15 W/cm^2.*
- Manual, timed or cycle shutter operation.
- Complete cycle control – settable parameters include:
  - UV exposure time (shutter open).
  - Dwell time (shutter closed).
  - Number of cycles (continuous cycling).
- "Lamp On" is indicated by relay contact output.
- Can be operated from an external PLC.
- Small footprint and lightweight. (7½ lbs.)
- Shutter is operated by a reliable rotary solenoid.
- Lamp is disabled if the enclosure lid is removed.
- Light guide interlock safety switch prevents accidental UV exposure if the light guide is not installed. Internal dichroic mirror minimizes the transmission of heat caused by "waste energy," while allowing critical UV light to pass.
- Provides excellent depth-of-cure capabilities due to its high UV output.
- Ideal for interface with automated assembly lines via the dry-contact closure 9-pin connector located on rear project.

TECHNICAL SPECIFICATIONS		
Item Number		**1661548**
Power Supply		90-264 VAC; 50-60 Hz
Warm-Up Time		90 seconds
Dimensions		12.5" W x 9.75" D x 5.5" H
Weight		7 lbs.
Optimized Spectral Output Range		UVA, B, C
UV Output Characteristics	*Typical***	Up to 15 W/cm^2 (using 5 mm x 1,000 mm light guide)*
	UV Spectral Range	250 to 450 nm
Parts Included		(1) LOCTITE EQ CL15 UV Wand System (1) Ultraviolet Protection Glasses (1) Line Cord (1) UV Lamp (1) Foot Pedal (1) Manual
Replacement Parts		1664246 – EQ CL15 Replacement Lamp

Additional Accessories Sold Separately

1406024 – 7020 UV Spot Radiometer

For proper eye protection, use LOCTITE brand Safety Glasses.

98452 – UV & Visible Light Safety Glasses, Orange

Light Guide Options – UV Wands

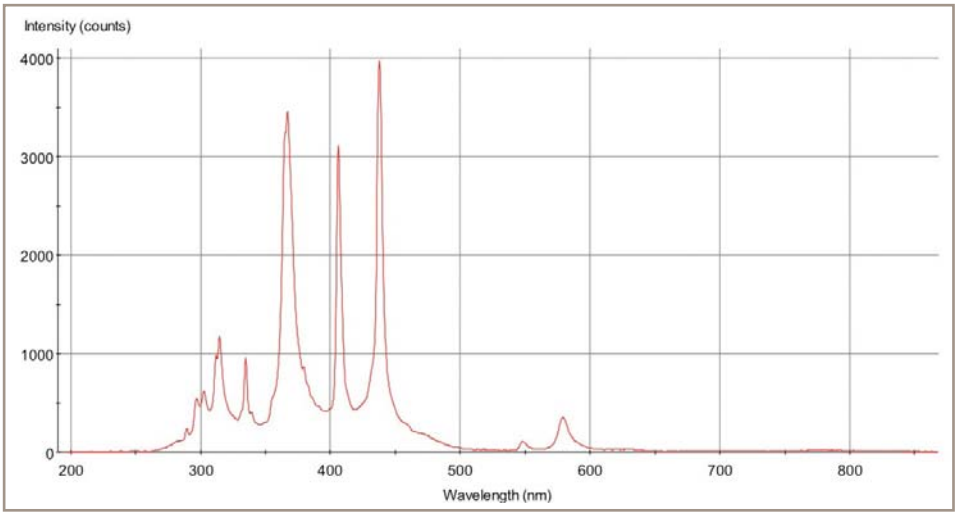
Description	Dimensions	Item Numbers		
		Single Pole	2 Pole	4 Pole
Standard	3 mm x 1000 mm	N/A†	983684	98597
	5 mm x 1000 mm	983677	N/A†	N/A†
	5 mm x 1500 mm	951681	N/A†	N/A†
UVC§	3 mm x 1000 mm	N/A†	352194	N/A†
	5 mm x 1000 mm	329278	N/A†	N/A†
	5 mm x 1500 mm	782189	N/A†	N/A†

§ Enhanced UVC wands require the removal of the filter inside the CL15 system in order to optimize tack-free surface cure. (See Equipment Manual for details.)

† Multi-pole guides are only available with 3 mm diameter poles.

Typical Light Guide Cure Areas

983677: ¼" to ½" diameter
983684: ⅛" to ¼" diameter
951681: ¼" to ½" diameter



* Output with a new lamp installed and measured with a LOCTITE 7020 UV Spot Radiometer, item #1406024

** Denoted values are typical expected intensity and are not a fixed specification. Exact output measurement is dependent on the brand and calibration method of the meter used plus normal variation of arc lamps. Condition and straightness of light guide will also affect output. Comparisons of different light sources should only be made using a common meter. Do not evaluate by published data.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

Cure Chambers & Flood Systems

LOCTITE® brand chamber and flood systems are modular low- and medium-intensity ultraviolet and high-intensity visible light-emitting units designed for the batch curing of light curing adhesives and coatings. Selection of a LOCTITE brand chamber and flood system is based on the required intensity of light and cure area.

LOCTITE® CURE CHAMBERS

LOCTITE® 7401 UV Chamber

Item Number: 98039

The LOCTITE 7401 UV Chamber provides a reliable and economical design for UV curing and is well-suited for most production operations. Excellent for use in confined bond line applications, this medium-intensity light source can be used for adhesive applications where high-intensity output is not necessary.

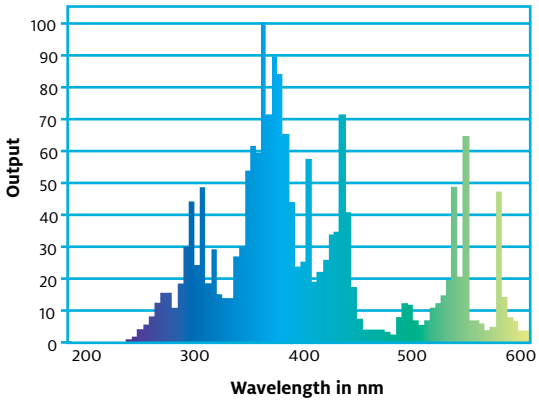
Features:

- Contains a 4 in., 400 watt metal halide bulb.
- Designed to emit in the UVA region.
- Curing area of 8 in. x 8 in., and a maximum part height of 4 in.
- Operator's hands have no direct exposure to UV energy.
- Expected UV lamp life of 1,000 hours with proper handling and maintenance.
- Convenient pull-out drawer to process parts.
- Viewing window to observe assemblies in process.
- The work surface is covered by a special silicone rubber pad to resist UV deterioration and chemical attack.

Theory of Operation

The unit is operated by simply placing the assembly into the cure drawer, closing the drawer, and allowing exposure for the desired time. A viewing window allows monitoring of the curing process.

Spectral Output of a UV Metal Halide Bulb



TECHNICAL SPECIFICATIONS	
Utilities	120 VAC; 8 amps; 60 Hz
Lamp Type, *(Visible and UV enhanced)*	400 watt Metal Halide
Dimensions	11.5" H x 10.75" W x 20.1" D
Weight	39 lbs.
Parts Included	(1) 7401 UV Chamber (1) Pair Cotton Gloves (1) UV Protective Eyewear (1) Power Cord (1) Manual
Replacement Parts	97246 – LOCTITE UV Lamp – 400 watt Metal Halide

Additional Accessories Sold Separately		
Radiometers	**Use With**	**Requires**
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	97246 – LOCTITE UV Lamp – 400 watt Metal Halide	N/A
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	983050* – LOCTITE Visible Light Enhanced Metal Halide Bulb	1403403 – Adapter/Filter for Visible Arc Lamps

* Optional replacement bulb.

For additional information and the full line of equipment, visit **equipment.loctite.com.**

LOCTITE® FLOOD SYSTEMS

LOCTITE® 7411-S UV Flood System

Item Number: 98413

The LOCTITE® 7411-S UV Flood System is designed for use in a wide range of bonding, potting, tacking and sealing applications. Because of its reliability and simplicity, it is well-suited for most production operations. The LOCTITE 7411-S can accept multiple part sizes. An optional timed control shutter (as displayed) or visible enhanced metal halide lamp are also available.

Shown with 98420 – Optional Shutter Assembly

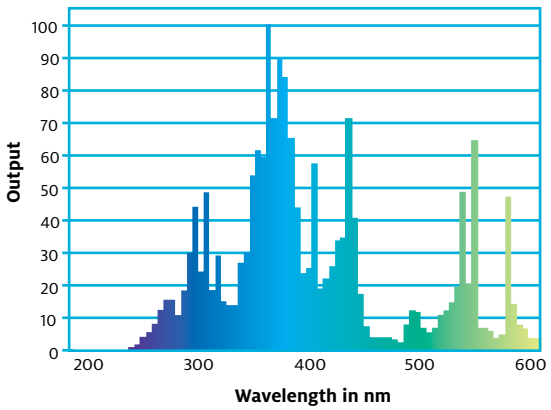
Features:

- Contains a 4 in., 400 watt metal halide bulb.
- Optimized to emit in the UVA region.
- Typical curing area of 8 in. x 8 in.
- Expected UV lamp life of 1,000 hours with proper handling and maintenance.
- Power supply can be separated from the lamp base assembly.
- Lamp height is adjustable to a maximum height of 11¾ in. from pad.
- Contains a glass filter to reduce the short and medium wavelength lamp emissions.
- The work surface is covered by a special silicone rubber pad to resist UV deterioration and chemical attack.

Theory of Operation

The operator places the assembly to be bonded into the cure area, allows the assembly to be exposed for the proper time, and manually removes the cured assembly. In addition, the light source can be pulled from the power supply and mounted over a conveyor belt for a more automated use of the equipment.

Spectral Output of a UV Metal Halide Bulb



TECHNICAL SPECIFICATIONS	
Utilities	120 VAC; 8 amps; 60 Hz
Lamp Type, *(Visible and UV enhanced)*	400 watt Metal Halide
Dimensions	27.0" H x 12.7" W x 14.0" D
Weight	37 lbs.
Parts Included	(1) Reusable Shipping Box Foam Packaging (1) Height Adjustment for Reflector Housing (1) Reflector Housing with Flexible UV Curtain Shield Attached (1) UV Protective Eyewear (1) Cotton Gloves (1) UV Power Supply (1) Power Cord (1) Manual
Replacement Parts	988159 – LOCTITE Replacement Filter Glass 988173 – LOCTITE Replacement Light Blocking Curtain 97246 – LOCTITE UV Lamp - 400 watt Metal Halide 983050* – LOCTITE Visible Light Enhanced Metal Halide Bulb
Additional Accessories Sold Separately	
	98420 – LOCTITE Time Controlled Shutter

For proper eye protection, use LOCTITE brand Safety Glasses.

98452 – UV & Visible Light Safety Glasses, Orange

Radiometers	Use With	Requires
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	97246 – LOCTITE UV Lamp – 400 watt Metal Halide	N/A
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	983050* – LOCTITE Visible Light Enhanced Metal Halide Bulb	1403403 – Adapter/ Filter for Visible Arc Lamps

* Optional replacement bulb – special order.

LOCTITE® Focused UV Flood Curing System

Item Number: 1113131

The LOCTITE® Focused UV Flood Curing System is designed for use in a wide range of bonding, potting, tacking and sealing applications. Because of its reliability and simplicity, it is well-suited for most production operations. The system irradiates medium power, long wave and ultraviolet light, focused over a 2 in. x 4 in. work area. All operational components are conveniently contained in one portable unit. The comfortable handle provides for easy handheld use or the unit can be mounted, making use of threaded mounting holes on the top side. An optional Headrest Assembly is also available to keep the unit off a benchtop surface.

Shown with optional Headrest Assembly

Features:

- Focused UV light source with up to three times the intensity of our 7411-S unit over a 2 in. x 4 in. work area.
- Optimized to emit in the UVA region.
- Complete curing system in one portable assembly.
- Includes Standby Mode to increase bulb life and temperature impact of the work area.
- Constant lamp power regulation, with convenient 120 VAC line operation.
- Optional Headrest Assembly to keep off benchtop surface when not in use.

Theory of Operation

The unit can be either handheld or mounted for the specific curing application. After warm-up, the part to be cured is placed under the lamp for the predetermined required amount of exposure time. To minimize heat buildup and extend bulb life, the unit can be switched into a standby mode.

TECHNICAL SPECIFICATIONS	
Utilities	120 VAC, 60 Hz single phase
Lamp Type *(Visible and UV enhanced)*	400 watt Metal Halide
Dimensions	7.6" L x 4.5" W x 8.1" H
Weight	4.5 lbs.
Parts Included	(1) Head Lamp Assembly (1) Power Cord (1) UV Protective Eyewear (1) Pair Cotton Gloves (1) Operator's Manual (1) Reusable Shipping Box and Foam Packaging
Replacement Parts	97246 – LOCTITE UV Lamp – 400 watt Metal Halide

Additional Accessories Sold Separately		
Radiometers	**Use With**	**Requires**
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	97246 – LOCTITE UV Lamp - 400 watt Metal Halide	N/A
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	983050* – LOCTITE Visible Light Enhanced Metal Halide Bulb	1403403 – Adapter/ Filter for Visible Arc Lamps

* Optional replacement bulb – special order.

For proper eye protection, use LOCTITE brand Safety Glasses.

Item Number 98452 – UV & Visible Light Safety Glasses, Orange

Cure Conveyors

LOCTITE® brand cure conveyors are used for continuous or batch processing of assemblies. Each conveyor has a special set of features designed to meet the challenges associated with benchtop curing of light curing adhesives and coatings. Selection of a LOCTITE brand cure conveyor is based on the part size and the required lamp for optimum cure.

LOCTITE® 7415 UV Benchtop Conveyor

Item Number: 98003

The LOCTITE 7415 UV Benchtop Conveyor offers variable speed adjustment for low- to medium-volume production, and is designed for use with an electrodeless bulb and a parabolic reflector to create a uniform cure area. The lamp assembly, conveyor and power supply are ordered separately. The system can be integrated into an automatic or semiautomatic production line for cure-on-demand assembly.

Features:

- Conveyor speeds from 3.3 to 23 ft. per minute or 0.3 to 7.2 ft. per minute.
- Typical curing area width of 6 in.
- Lamp orientation and height are adjustable for variable cure focal points.
- Integrated modular blower for lamp cooling.

TECHNICAL SPECIFICATIONS	
Conveyor Utilities	117 VAC single phase, 1 amp, 50-60 Hz or can be configured for 230 VAC single phase
98004* Power Supply Utilities	208 VAC single phase; 18 amps; 50/60 Hz
98005* Power Supply Utilities	240 VAC single phase; 18 amps; 50/60 Hz
Maximum Part Size	7.5" W x 3" H
Conveyor Size	27.4" H x 42" W x 20" D
Conveyor Weight	85 lbs.
Power Supply Size	8" H x 19.9" W x 23" D
Useful Cure Area	6" x 6"
Optimized Spectral Output Range	UVA, B, C*
Parts Included	(1) LOCTITE 7415 UV Benchtop Conveyor* (1) Ultraviolet Protection Glasses (1) Manual

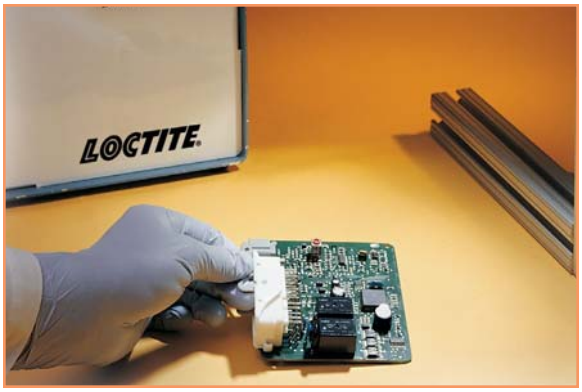
* The lamp assembly is sold separately; see page 97 for details.

Additional Accessories Sold Separately	
983464 – LOCTITE Sight Shield, Snap In, Box End Style (special order)	983462 – LOCTITE Exhaust Plenum (special order)

Radiometers	Use With	Requires
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	983469 – LOCTITE D Bulb - 300 W/in. 983470 – LOCTITE H Bulb - 300 W/in.	N/A
1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	983471 – LOCTITE V Bulb - 300 W/in.	1403403 – Adapter/ Filter for Visible Arc Lamps

High Intensity Light Sources

Our light sources and power supplies provide high-intensity ultraviolet light for curing light cure adhesives and coatings. These units are designed to be integrated into a LOCTITE® brand conveyor system, or used when the end user provides the conveyor and shielding requirements. Selection of a light source and power supply is based on the bulb type, electrical requirements and the desired part movement.



LOCTITE® Electrodeless Lamp Assembly and Power Supply

Item Numbers:

98004 – 208 VAC single phase, 18 amps, 50/60 Hz
98005 – 240 VAC single phase, 18 amps, 50/60 Hz

The LOCTITE Electrodeless Lamp Assembly comes equipped with a long-life 6 in. "H" bulb. The light source is compatible with "D", "V", "H" and "H+" bulbs to tailor the spectral output of the light to the application. Selection of the 98004 or 98005 is based on the electrical capabilities available to the end user. The LOCTITE Electrodeless Lamp Assembly is typically used with the LOCTITE 7415 UV Benchtop Conveyor.

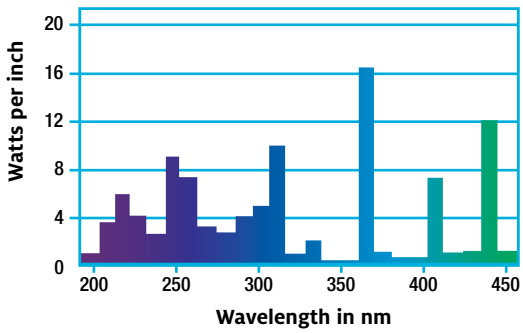
Features:

- Designed for use with the LOCTITE 7415 UV Benchtop Conveyor.
- Electrodeless bulb technology provides high intensity output.
- The system is shipped standard with an "H" bulb, but will accept "D," "V" or "H+" bulbs to fine-tune lamp spectral output.
- Expected UV bulb life of 5,000 hours of the "H" bulb, with proper handling and maintenance.
- High UV output with low IR output results in less heat to the substrate.

Theory of Operation

An operator will assemble parts with a light curing adhesive or coating and manually or automatically place the part under the lamp for cure. Shielding is obtained through the use of this assembly with a LOCTITE 7415 Benchtop Conveyor. If used elsewhere, shielding must be provided by the customer.

Spectral Output of "H" Bulb



TECHNICAL SPECIFICATIONS		
Power Supply	98004	208 VAC single phase; 18 amps; 50/60 Hz
	98005	240 VAC single phase; 18 amps; 50/60 Hz
Lamp	Fusion H Bulb – 300 W/in.	
Dimensions	19.9" H x 6.6" W x 10.3" D	
Parts Included	(1) Fusion Lamp Assembly and Power Supply (1) Manual	
Replacement Bulb	983470 – Fusion H Bulb – 300 W/in.	

Additional Accessories Sold Separately			
Radiometers		**Use With**	**Requires**
	1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light	983469 – LOCTITE D Bulb - 300 W/in. 983470 – LOCTITE H Bulb - 300 W/in.	N/A
	1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light	983471 – LOCTITE V Bulb - 300 W/in.	1403403 – Adapter/ Filter for Visible Arc Lamps

LOCTITE® High Intensity Ultraviolet Sources

Item Number: 980160

The LOCTITE® High Intensity Ultraviolet Sources are designed for a wide range of applications using ultraviolet curing adhesives and coatings. With the proper shielding, cooling and venting (not included with this product), this light source can be integrated into both prototype and production applications. This unit is designed specifically for the users who want to integrate their own shielding, cooling, venting and mounting systems into a production line.

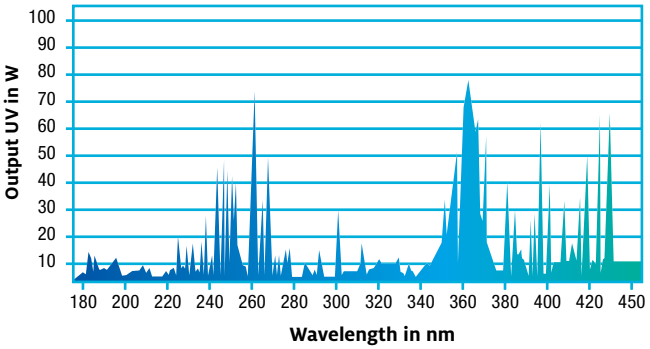
Features:

- Contains a 5 in., 300 watts/inch medium-pressure mercury vapor bulb – Item Number 980161.
- Variable bulb wattage: 200 or 300 watts/in.
- Designed to emit in the UVA and UVB regions.
- Typical curing area of 4.5 in. x 6 in.
- Expected UV bulb life of 1,000 hours with proper handling and maintenance.

Theory of Operation

To assemble a component with a UV curing adhesive or coating, place and remove the part manually or automatically under the light source. Customers will provide their own mounting, shielding, cooling and venting for this unit.

Spectral Output of a Medium-Pressure Mercury Arc Bulb



TECHNICAL SPECIFICATIONS	
Power Supply	115 VAC; 60 Hz; 15 amp
Power Consumption	2,000 watts
Lamp	300 watt Medium Pressure Mercury Arc Lamp
Lamp Unit Size	15.18" L x 8.7" W x 7.4" H
Power Supply Size	15.0" L x 14.7" W x 12.1" H
Lamp Unit Weight	9 lbs.
Power Supply Weight	45 lbs.
Parts Included	(1) High-Intensity UV Source (1) Ultraviolet Protection Glasses (1) Manual
Replacement Bulb	980161 – Replacement 5" UV Bulb – 300 W/in.

Additional Accessories Sold Separately

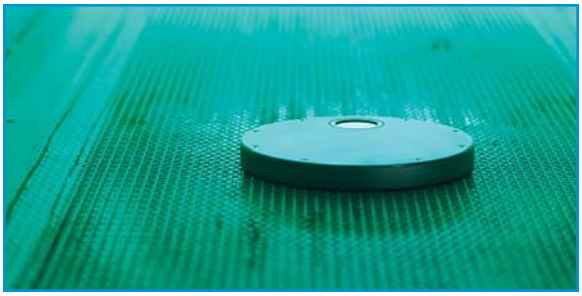
1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light

For proper eye protection, use LOCTITE brand Safety Glasses.

Item Number 98452 – UV & Visible Light Safety Glasses, Orange

Light Meters

Henkel offers several light meters designed to consistently measure the output of our UV and visible light cure equipment.



LOCTITE® Radiometer Dosimeter for UV LED and UV A/B Light

Item Number: 1390323

LOCTITE® Radiometer Dosimeter for Visible LED and UVV Light

Item Number: 1265282

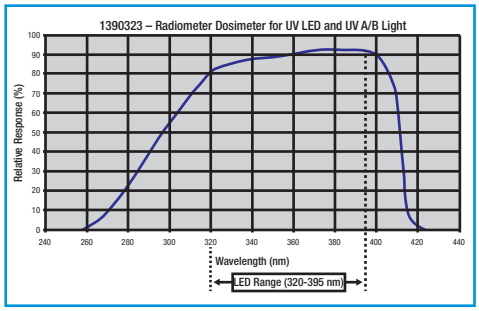
The LOCTITE® Radiometer Dosimeters are an industry first for measurement of LED Light Curing devices. The flat response curve makes these Radiometer Dosimeters uniquely qualified to measure narrow band wavelengths of LED Light Curing devices (see graphs below). They can also be used with traditional arc lamps in Curing Chambers, Conveyors and Flood Lamps. This unit combines the all-in-one exposure, intensity measurement and profile memory capabilities into one device.

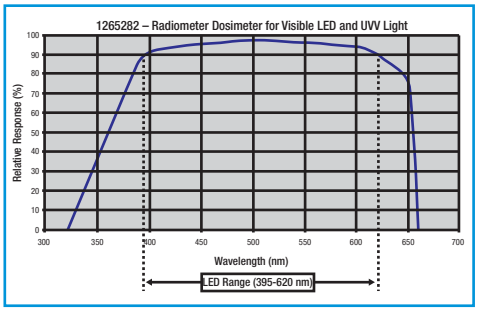
Features:

- Solid-state detector and ultra-stable amplifier technology to give lower noise, greater speed and higher accuracy.
- Digital display of peak intensity and total exposure.
- Graphical display of intensity vs. time.
- Baseline profile reference plot allows on-the-spot comparison of the current performance of the curing unit with baseline.
- Built-in rechargeable batteries with charger included.

Radiometer Dosimeter includes:

- Instruction sheet
- AC charger
- Carry case
- Calibration certificate





TECHNICAL SPECIFICATIONS		
Item Number	**1390323 – LOCTITE Radiometer Dosimeter for UV LED and UV A/B Light**	**1265282 – LOCTITE Radiometer Dosimeter for Visible LED and UVV Light**
Operating Temperature	0°C to 75°C internal temperature Note: Tolerates much higher external temperatures for short periods; audible alarm indicates when temperature is too high.	
Automatic Shutoff	5 minutes (if no buttons are pressed)	
Display	4 digit LCD	
Spectral Range, Total	280 to 405 nm	350 to 660 nm
Spectral Range, LED	320 to 395 nm	395 to 620 nm
Dimensions	160 mm L x 110 mm W x 12 mm D	
Weight	8.6 oz. (245 g)	
Typical Battery Life	Typical time between charges – 4 hours use	
Case Material	Aluminum, stainless steel	
Intensity Dosage Range	5 mW/cm^2 – 20 W/cm^2	

Additional Accessories Sold Separately
1421420 – adapter for EQ CL28 CureJet™ LED Spot 405 nm (2183340) and EQ CL28 CureJet™ LED Spot 380 nm (2183339)
1403403 – adapter/filter for Visible Arc Lamps. Includes a band-pass filter to limit the upper end of the wavelength being measured to 520 nm. LOCTITE brand visible-cure adhesives react to wavelengths below 520 nm.
1403402 – adapter for EQ CL10 LED heads (1538499-365 nm) (1746633-405 nm)

LOCTITE® 7020 UV Spot Radiometer

Item Number: 1406024

The LOCTITE® 7020 UV Spot Radiometer is a self-contained, electro-optic instrument designed to measure and display the UV power density (irradiance) emitted by a UV spot curing system. The units displayed are watts per square centimeter. Decreased radiant power related to the degradation of UV lamps, light guides and reflectors can result in declines in process efficiency or incomplete curing of LOCTITE light cure products.

The Radiometer is designed to provide the operator with instant feedback as to the performance of the spot-curing system based upon changes in the irradiance.

Features:

- Measure light guide degradation.
- Optimize multi-pole light guide positioning.
- Determine proper intensity required for curing various materials.
- Meets ISO™*-9000 requirements.
- Includes adapters for 3 mm, 5 mm and 8 mm size light guides.

TECHNICAL SPECIFICATIONS	
Range	0 to 20 W/cm^2
Resolution	10 mW/cm^2
Display	3.5 mm digital LCD
Display Time	2.5 to 5 minutes
Spectral Range	320 to 390 nm (UVA region)
Power Source	Lithium Battery Stick
Battery Life	12,500 hours continuous operation (over 100,000 readings)
Overall Dimensions	163 mm long (6.42") x 53.6 mm diameter (2.11")
Weight	12.8 oz.
Case Material	Aluminum, polyester and quartz
Parts Included	(1) Calibration Certificate (1) Carrying Case (1) Instruction Sheet

* ISO = The International Organization for Standardization.

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98065	½" Stainless Steel Tips, 15 Gauge, Amber, 1,000 pack	65
98066	½" Stainless Steel Tips, 18 Gauge, Green, 1,000 pack	65
98067	½" Stainless Steel Tips, 20 Gauge, Pink, 1,000 pack	65
98068	½" Stainless Steel Tips, 25 Gauge, Red, 1,000 pack	65
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98232	1" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	64
98233	1" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	64
98234	1" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	64
98235	1" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	64
98236	45° by ½" Stainless Steel Tips Helical Thread, 14 Gauge, White, 50 pack	64
98237	45° by ½" Stainless Steel Tips Helical Thread, 14 Gauge, White, 1,000 pack	64
98240	45° by ½" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	64
98241	45° by ½" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	64
98244	45° by ½" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	64
98245	45° by ½" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	64
98248	45° by ½" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	64
98249	45° by ½" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	64
98252	45° by ½" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	64
98253	45° by ½" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	64
98256	45° by ½" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	64
98257	45° by ½" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	64
98260	45° by ½" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	64
98261	45° by ½" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	64
98264	45° by ½" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	64
98265	45° by ½" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	64
98268	45° by ½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 50 pack	64
98269	45° by ½" Stainless Steel Tips Helical Thread, 27 Gauge, Light Grey, 1,000 pack	64
98272	1¼" Polyethylene Tapered Tips, 14 Gauge, Tan, 50 pack	65
98273	1¼" Polyethylene Tapered Tips, 14 Gauge, Tan, 1,000 pack	65
98314	LOCTITE 55 ml Clear Syringe Barrel Kit	69
98315	LOCTITE 55 ml Black Syringe Barrel Kit for UV Adhesives	69
98316	LOCTITE 30 ml Syringe Mounting Bracket Kit	80
98318	LOCTITE 300 ml Cartridge Mounting Bracket Kit	80
98319A	LOCTITE 300 ml Pneumatic Cartridge Dispensing Retainer	20, 22
98320	LOCTITE Syringe Adapter	80
98326	LOCTITE Valve Mounting Bracket Kit	80
98327	LOCTITE Valve Mounting Bracket Kit	80
98328	LOCTITE Mounting Rails for 3-Axis Benchtop Robots and Dispense Stations	80
98329	LOCTITE Mounting Rails for 3-Axis Benchtop Robots and Dispense Stations	80
98336	LOCTITE Mounting Adapter for 4-Axis Robots	80
98343	97113 and 97114 Valve Holder	80
98345	LOCTITE Soft Squeeze Bottles, 2 fl. oz.	31, 32
98346	LOCTITE Soft Squeeze Bottles, 4 fl. oz.	31, 32
98347	LOCTITE Soft Squeeze Bottles, 8 fl. oz.	31, 32
98348	LOCTITE Dunce Cap for 2 oz. Bottle, 50 pack	32
98349	LOCTITE Dunce Cap for 4 oz. and 8 oz. Bottle, 50 pack	32
98350	Luer-Slip Cap for 2 oz. Bottle, 50 pack	32
98351	Luer-Slip Cap for 4 oz. and 8 oz. Bottles, 50 pack	32
98357	LOCTITE Z Height Adjustment Plate for 3-Axis Benchtop Robot	80

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98364	LOCTITE 50 ml Mix Nozzle, 2,000 pack	66
98367	LOCTITE 200/400 ml Snap Tip Mix Nozzle, 1,000 pack	67
98371	LOCTITE Cartridge-Needle Adapter	65
98377	LOCTITE Posi-Link™ Controller	9, 10, 24, 25, 78
98379	LOCTITE Posi-Link™ 10-50 Actuator	9, 10, 24, 25
98385	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 14 Gauge, White, 50 pack	65
98386	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 14 Gauge, White, 1,000 pack	65
98387	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 16 Gauge, Grey, 50 pack	65
98388	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 16 Gauge, Grey, 1,000 pack	65
98389	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 18 Gauge, Green, 50 pack	65
98390	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 18 Gauge, Green, 1,000 pack	65
98391	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 20 Gauge, Pink, 50 pack	65
98392	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 20 Gauge, Pink, 1,000 pack	65
98393	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 22 Gauge, Blue, 50 pack	65
98394	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 22 Gauge, Blue, 1,000 pack	65
98395	LOCTITE Interface Cable for Benchtop Robots	78
98396	½" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 50 pack	64
98397	½" Stainless Steel Tips Helical Thread, 15 Gauge, Amber, 1,000 pack	64
98398	½" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 50 pack	64
98399	½" Stainless Steel Tips Helical Thread, 18 Gauge, Green, 1,000 pack	64
98400	½" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 50 pack	64
98401	½" Stainless Steel Tips Helical Thread, 20 Gauge, Pink, 1,000 pack	64
98402	½" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 50 pack	64
98403	½" Stainless Steel Tips Helical Thread, 22 Gauge, Blue, 1,000 pack	64
98404	½" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	64
98405	½" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	64
98406	LOCTITE Poppet Valve Mounting Bracket Kit	80
98408	Poppet Valve Holder	80
98413	LOCTITE 7411-S UV Flood System	82, 94
98414	LOCTITE 50 ml Hand Pump	31, 32
98416	LOCTITE 55 ml Syringe Starter Kit	11, 12, 69
98420	LOCTITE Time Controlled Shutter	94
98424	½" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 50 pack	64
98425	½" Stainless Steel Tips Helical Thread, 21 Gauge, Purple, 1,000 pack	64
98439	LOCTITE Showcase Needle Variety Kit	65
98441	LOCTITE Micro Needle Valve Mounting Bracket Kit	80
98445	LOCTITE Light Cure Acrylic Adhesive Dispensing System	14
98446	LOCTITE Roller Assembly 1" wide band	65
98447	LOCTITE Replacement Rollers 1" wide, 3 pack	65
98448	LOCTITE Roller Assembly 2" wide band	65
98449	LOCTITE Replacement Rollers 2" wide, 3 pack	65
98452	LOCTITE UV & Visible Light Safety Glasses, Orange	82, 83, 84, 85, 86, 89, 90, 91, 92, 94, 95, 98
98472	LOCTITE 50 ml Dual Cartridge Manual Applicator	31, 34
98479	LOCTITE 3 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 50 pack	70
98480	LOCTITE 3 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 1,000 pack	70
98481	LOCTITE 3 ml Pneumatic Syringe Barrel and Piston Kit, Black, 50 pack	70
98482	LOCTITE 3 ml Pneumatic Syringe Barrel and Piston Kit, Black, 1,000 pack	70
98483	LOCTITE 5 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 50 pack	70
98484	LOCTITE 5 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 1,000 pack	70
98485	LOCTITE 5 ml Pneumatic Syringe Barrel and Piston Kit, Black, 50 pack	70
98486	LOCTITE 5 ml Pneumatic Syringe Barrel and Piston Kit, Black, 1,000 pack	70
98487	LOCTITE 10 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 50 pack	70
98488	LOCTITE 10 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 1,000 pack	70
98489	LOCTITE 10 ml Pneumatic Syringe Barrel and Piston Kit, Black, 50 pack	70
98490	LOCTITE 10 ml Pneumatic Syringe Barrel and Piston Kit, Black, 1,000 pack	70
98491	LOCTITE 30 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 50 pack	70
98492	LOCTITE 30 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 500 pack	70
98493	LOCTITE 30 ml Pneumatic Syringe Barrel and Piston Kit, Black, 50 pack	70
98494	LOCTITE 30 ml Pneumatic Syringe Barrel and Piston Kit, Black, 500 pack	70
98495	LOCTITE 55 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 250 pack	70
98496	LOCTITE 55 ml Pneumatic Syringe Barrel and Piston Kit, Natural, 50 pack	70
98497	LOCTITE 55 ml Pneumatic Syringe Barrel and Piston Kit, Black, 50 pack	70
98498	LOCTITE 55 ml Pneumatic Syringe Barrel and Piston Kit, Black, 250 pack	70
98499	LOCTITE Tip Caps, 1,000 pack	65
98501	LOCTITE Applicator Holder	6, 10, 11, 12, 42, 43, 44, 45, 69
98520	LOCTITE Spray Valve	17, 47, 54, 59, 80
98544	LOCTITE Hysol® 050 Hot Melt Applicator	40
98545	LOCTITE Hysol® 050-HT Hot Melt Dispenser	40
98557	LOCTITE 3 ml Pneumatic Syringe Barrel, Natural, 1,000 pack	70
98559	LOCTITE 5 ml Pneumatic Syringe Barrel, Natural, 1,000 pack	70
98561	LOCTITE 10 ml Pneumatic Syringe Barrel, Natural, 1,000 pack	70
98563	LOCTITE 30 ml Pneumatic Syringe Barrel, Natural, 500 pack	70
98565	LOCTITE 55 ml Pneumatic Syringe Barrel, Natural, 250 pack	70
98576	LOCTITE 5 ml Pneumatic Syringe Barrel, Black, 1,000 pack	70
98578	LOCTITE 10 ml Pneumatic Syringe Barrel, Black, 1,000 pack	70
98581	LOCTITE 55 ml Pneumatic Syringe Barrel, Black, 250 pack	70
98584	LOCTITE 5 ml Pneumatic Syringe Piston, 1,000 pack	70
98587	LOCTITE 30/55 ml Pneumatic Syringe Piston, 1,000 pack	70
98597	LOCTITE UV Wand, Standard 4 Pole, 3 mm x 1 m	92
98610	LOCTITE ¾" wide x ⅜" NPT Dispense Nozzle, 10 pack	65
98611	½" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 50 pack	64
98612	½" Stainless Steel Tips Helical Thread, 23 Gauge, Orange, 1,000 pack	64
98622	LOCTITE 50 ml Mix Nozzle, 10 pack	66

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98624	¼" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 50 pack	64
98625	¼" Stainless Steel Tips Helical Thread, 25 Gauge, Red, 1,000 pack	64
98626	¼" Stainless Steel Tips Helical Thread, 27 Gauge, Clear, 50 pack	64
98627	¼" Stainless Steel Tips Helical Thread, 27 Gauge, Clear, 1,000 pack	64
98628	¼" Stainless Steel Tips Helical Thread, 30 Gauge, Lavender, 50 pack	64
98629	¼" Stainless Steel Tips Helical Thread, 30 Gauge, Lavender, 1,000 pack	64
98639	LOCTITE Posi-Link™ 10-50 Actuator, 10 ml	10
98640	LOCTITE Posi-Link™ 10-50 Actuator, 25 ml	10
98641	LOCTITE Posi-Link™ 50 ml Dual Cartridge Nest, 1:1 / 2:1	25
98642	LOCTITE Posi-Link™ 50 ml Dual Cartridge Nest, 10:1	25
98643	LOCTITE Posi-Link™ 5-25 Actuator, 5 ml	10
98644	LOCTITE Posi-Link™ 5-25 Actuator, 10 ml	10
98645	LOCTITE Posi-Link™ 5-25 Actuator, 25 ml	10
98646	LOCTITE Universal Syringe Bracket for Posi-Link™	80
98647	LOCTITE 50 ml Dual Cartridge Bracket for Posi-Link™	80
98652	LOCTITE Light-blocking Shield for Dispense Tips, 10 pack	65
98655	LOCTITE 3 ml Pneumatic Syringe Barrel, Black, 1,000 pack	70
98656	LOCTITE 3 ml Syringe Air Line Adapter	11, 12, 69
98657	LOCTITE 5 ml Syringe Air Line Adapter	11, 12, 69
98658	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 25 Gauge, Red, 50 pack	65
98659	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 25 Gauge, Red, 1,000 pack	65
98660	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 27 Gauge, Clear, 50 pack	65
98661	1¼" Polyethylene Tapered Tips Helical Thread and UV Light Block Additive, 27 Gauge, Clear, 1,000 pack	65
98671	Solenoid Kit for LOCTITE Posi-Link™ Pinch Valve	25
98672	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
142241	TEROSON Multipress Telescopic Dispenser	20, 23
142646	¼" PTFE Lined Tube	26
243335	LOCTITE 200/400 ml Mix Nozzle, 6 pack	67
250052	LOCTITE Soft Press Hand Held Pneumatic Applicator	20, 22
329278	LOCTITE UV Wand, UVC Single Pole, 5 mm x 1 m	92
352194	LOCTITE UV Wand, UVC 2 Pole, 3 mm x 1 m	92
395397	TEROSON Cartridge Opener	23
419115	LOCTITE Nozzle Adapter/Check Valve, Single pack	40
547882	TEROSON Multi-Press Spray Nozzle, 12 pack	23
582416	Replacement Nozzle for Soft Press Handheld Pneumatic Applicator (Item No. 250052)	22
606052	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
720173	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
720174	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
720175	LOCTITE Luer-Lok Adapter, 10 pack	68
720177	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
720222	LOCTITE 50 ml Square Mix Nozzle, 1,500 pack	67
720225	LOCTITE 50 ml Mix Nozzle, 10 pack	66
720226	LOCTITE 200/400 ml Square Mix Nozzle, 10 pack	67
720227	LOCTITE 50 ml Square Mix Nozzle, 10 pack	66
720230	LOCTITE 50 ml Mix Nozzle, 10 pack	66
773794	LOCTITE 50 ml Mix Nozzle, 50 pack	67
778273	LOCTITE 50 ml Square Mix Nozzle, 10 pack	66
782189	LOCTITE UV Wand, UVC Single Pole, 5 mm x 1.5 m	92
804261	LOCTITE 200/400 ml Mix Nozzle, 1,500 pack	67

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826190	LOCTITE 50 ml Square Mix Nozzle, 1,000 pack	66
830703	¼" Stainless Steel Tips Helical Thread, 14 Gauge, Olive, 1,000 pack	64
830704	¼" Stainless Steel Tips Helical Thread, 14 Gauge, Olive, 50 pack	64
848088	LOCTITE 200/400 ml Square Mix Nozzle, 1,000 pack	67
874905	LOCTITE 200/400 ml Square Mix Nozzle, 10 pack	67
875472	LOCTITE 200/400 ml Square Mix Nozzle, 650 pack	67
883976	LOCTITE Digital Syringe Dispensing System	8, 12, 22, 72, 73, 74, 75, 78
901459	LOCTITE Vertical Syringe Stand	11, 12
916282	LOCTITE 050A Hot Melt Dispenser	36, 37
918088	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
930705	LOCTITE 200/400 ml Mix Nozzle, 1,000 pack	67
951681	LOCTITE UV Wand, Standard Single Pole, 5 mm x 1.5 m	92
960304	TEROSON Powerline II 300 ml Dispenser	20, 23
970655	LOCTITE Luer-Lok Adapter	68
980160	LOCTITE High Intensity Ultraviolet Sources, 115 VAC; 60 Hz; 15 amp	82, 98
980161	Replacement 5" UV Bulb – 300 W/in	98
981821	LOCTITE ¼" Clear Polyethylene Feed Tube	70
981866	LOCTITE ⅜" Clear Polyethylene Feed Tube	70
981994	LOCTITE ¼" Clear Nylon Feed Tube for Pump-A-Bead™	70
982644	LOCTITE Cartridge Adapter	65
982719	LOCTITE Bond-A-Matic® 3000 Dispenser	5, 7, 45
982720	LOCTITE Bond-A-Matic® 3000 Reservoir, 0 to 15 psi	15, 16, 17, 18, 19, 42, 44, 49, 50, 51, 52, 53, 54, 63
982722	LOCTITE Bond-A-Matic® 3000 Dispenser	5, 7, 45
982723	LOCTITE Bond-A-Matic® 3000 Reservoir, 0 to 100 psi	15, 16, 17, 18, 19, 42, 44, 48, 49, 50, 51, 52, 53, 54, 63
982726	LOCTITE Bond-A-Matic® 3000 Reservoir, 0 to 15 psi	15, 17, 18, 19, 42, 43, 44, 49, 50, 51, 52, 53, 54, 63
982727	LOCTITE Bond-A-Matic® 3000 Reservoir, 0 to 100 psi	15, 17, 18, 19, 42, 43, 44, 48, 49, 50, 51, 52, 53, 54, 63
982880	LOCTITE 4 Liter Gravity Feed Reservoir	60, 61
983050	LOCTITE Visible Wavelength Lamp Option	93, 94, 95
983330	LOCTITE Positive Displacement Pump	15, 60, 61
983436	LOCTITE 200 ml Dual Cartridge Manual Applicator	31, 34
983437	LOCTITE 200 ml Dual Cartridge Pneumatic Applicator	31, 34
983438	LOCTITE 400 ml Dual Cartridge Manual Applicator	31, 34
983439	LOCTITE 400 ml Dual Cartridge Pneumatic Applicator	31, 34
983462	LOCTITE Exhaust Plenum	96
983464	LOCTITE Sight Shield, Snap In, Box End Style	96
983469	LOCTITE Fusion D Bulb	96, 97
983470	LOCTITE Fusion H Bulb	96, 97
983471	LOCTITE V Bulb - 300 W/in	96, 97
983509	LOCTITE 50 ml Mix Nozzle, 2,000 pack	66
983533	LOCTITE Replacement 50 ml Applicator Plunger, 1:1 Ratio	34
983534	LOCTITE Replacement 50 ml Applicator Plunger, 2:1 Ratio	34
983677	LOCTITE UV Wand, Standard Single Pole, 5 mm x 1 m	92
983684	LOCTITE UV Wand, Standard 2 Pole, 3 mm x 1 m	92
983914	Poppet Valve Mounting Bracket Kit	80
984209	LOCTITE Optional 50 ml Applicator Plunger, 4:1 Ratio	34
984210	LOCTITE 4:1 Conversion Kit	34
984211	LOCTITE 4:1 Conversion Kit	34
984261	LOCTITE Standard Adapter for 300 ml Cartridge	40
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984263	LOCTITE Adapter/Check Valve for Specialty Nozzles	40

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984268	LOCTITE 3-Hole Nozzle	40
984272	LOCTITE Injection Needle Nozzle	40
984621	LOCTITE Replacement Foot Switch	54
984650	LOCTITE Air Line Filter for Syringe Dispensing	69
984688	LOCTITE Silicone Tubing for Dispense Valve Purging, 10 Pack	70
984691	LOCTITE Advancing Slide (2" Stroke)	15
984832	LOCTITE Tube Fitting: ¼" male NPT x ¼" feed tube, 10 pack	65
984833	LOCTITE Tube Fitting: ¼" male NPT x ⅜" feed tube, 10 pack	65
985110	LOCTITE 2-Hole Nozzle	40
985111	LOCTITE 3-Hole Nozzle	40
985112	LOCTITE Diagonal Extension Nozzle	40
985113	LOCTITE Needle Extension Nozzle	40
985114	LOCTITE Spreader Extension Nozzle	40
985115	LOCTITE L-Nozzle	40
985122	LOCTITE Standard Medium Spray Nozzle	40
985211	LOCTITE Narrow Spray Nozzle	40
985216	LOCTITE Ultra-Wide Spray Nozzle	40
985225	LOCTITE 1-Hole Nozzle	40
985246	LOCTITE 400 ml Dual Cartridge Manual Applicator	31, 34
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985397	LOCTITE Air Filter, Regulator, Gauge	13, 38, 40, 57
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986035	Nozzle: 0.035" Diameter for LOCTITE Poppet Valve (986300)	70
986060	Nozzle: 0.060" Diameter for LOCTITE Poppet Valve (986300)	70
986086	LOCTITE Optional 50 ml Applicator Plunger, 10:1 Ratio	34
986300	LOCTITE Poppet Valve	47, 56, 59, 70, 80
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987512	LOCTITE Operations Box	78
988000	LOCTITE Solenoid Valve Module	72, 73, 74, 75, 76, 77, 78
988159	LOCTITE Replacement Filter Glass for 98413	94
988173	LOCTITE Replacement Light Blocking Curtain	94
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989038	LCA Tubing Adhesive Applicator Bushing, 2 mm	14
989039	LCA Tubing Adhesive Applicator Bushing, 3 mm	14
989040	LCA Tubing Adhesive Applicator Bushing, 4 mm	14
989041	LCA Tubing Adhesive Applicator Bushing, 5 mm	14
989042	LCA Tubing Adhesive Applicator Bushing, 6 mm	14
989268	LOCTITE 0.014" Nozzle Kit	17, 54
989269	LOCTITE 0.028" Nozzle Kit	17, 54
989347	LOCTITE Adapter for 250 ml Squeeze Tubes	22
989518	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
989656	LOCTITE LR-C Teach Point Software for LOCTITE Benchtop Robots	78
989763	LOCTITE 200 Series Light Curtain Guarding System	80
989771	LOCTITE 300 Series Light Curtain Guarding System	80
989777	LOCTITE 400/500 Series Light Curtain Guarding System	80
989787	LOCTITE 200 Series Slide Door Guarding System	80
989788	LOCTITE 300 Series Slide Door Guarding System	80
989789	LOCTITE 400/500 Series Slide Door Guarding System	80
989852	LOCTITE SCARA Light Curtain Guarding System	80
997569	LOCTITE Silicone Grease	50
998390	LOCTITE Vari-Drop™ Applicator Brushes, 10 pack	65
998400	LOCTITE Dial-A-Seal® Applicator	62
1008335	LOCTITE S440 Series SCARA-N Robot, 440 mm, 4 Axis, 220 V CE Rated	78
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1008351	LOCTITE S440 SCARA-N Robot, 3-Axis	71, 78
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1015106	LOCTITE Teach Pendant	78
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1032026	LOCTITE 200/400 ml Mix Nozzle, 10 pack	67
1034024	LOCTITE Replacement 50 ml Applicator Plunger, 10:1 Ratio	34
1034026	LOCTITE 50 ml Dual Cartridge Manual Applicator, S-50 Cartridge	31, 34
1034030	LOCTITE LED Mounting Bracket Kit	80
1034575	LOCTITE 50 ml-B Mix Nozzle, 10 pack	34, 66
1044246	LOCTITE Aero Nozzle for Silicones in aerosol cans, 10 pack	65
1044247	LOCTITE Cartridge-Syringe Adapter	65
1044249	LOCTITE Cable Connector Plug Kit	17
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1046901	LOCTITE High Pressure 300 ml Benchtop Cartridge Dispenser	20, 21, 57
1053227	LOCTITE Adapter Cable	72, 73, 74, 75
1053262	LOCTITE 200/400 ml Mix Nozzle, 2,000 pack	67
1083845	LOCTITE 50 ml F Tube Squeeze Dispenser	31, 33
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1098256	LOCTITE 200/400 ml Mix Nozzle, 1,200 pack	67
1100962	LOCTITE 300 ml Single-Axis Cartridge Mix Nozzle	68
1100963	LOCTITE 300 ml Single Axis Cartridge Mix Nozzle	68
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1116241	LOCTITE 50 ml Mix Nozzle, 2,500 pack	66
1143355	LOCTITE 50 ml Mix Nozzle with Integral Needle Adapter, 2,000 pack	66
1145743	LOCTITE 50 ml Mix Nozzle with Integral Needle Adapter, 10 pack	66
1146078	LOCTITE Stainless Steel, PTFE Lined, 25 Gauge, 1,000 pack	65
1146079	LOCTITE Stainless Steel, PTFE Lined, 25 Gauge, 50 pack	65
1147763	LOCTITE Cartridge-Dispense Valve Adapter Assembly Fischbach Thread x ¼" male NPT	65
1153502	LOCTITE High Pressure Dispense Valve, 150 Bar	47, 57, 59
1174337	LOCTITE Micro Dispense Scale	6, 10, 11, 12, 17, 18, 42, 44, 49, 50, 51, 52, 63
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1176444	LOCTITE Pistol Grip Trigger	49, 52
1180632	LOCTITE CureJet™ Quad Controller	81, 84, 85, 86
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